

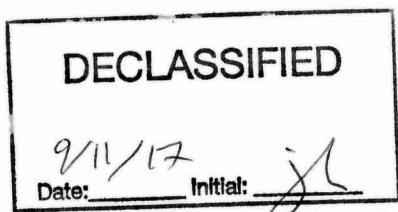
EPA WORK ASSIGNMENT NUMBER: 076-2JZZ
EPA CONTRACT NUMBER: 68-W8-0110
FOSTER WHEELER ENVIRONMENTAL INCORPORATED

ARCS II PROGRAM

FINAL
EXPANDED SITE INSPECTION (ESI)
UNIVERSAL WASTE & PAPER
CITY OF UTICA
ONEIDA COUNTY, NEW YORK
CERCLIS NO.: NYD980509335

SEPTEMBER 1996

VOLUME II OF II



NOTICE

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EBASCO SERVICES INCORPORATED

ARCS II PROGRAM

FINAL CER
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UNIVERSAL WASTE & PAPER
CITY OF UTICA
ONEIDA COUNTY, NEW YORK
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NOVEMBER 1995

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RECOMMENDATIONS

The overall HRS preliminary score is 2.02. The groundwater pathway was scored on an observed release basis due to the presence of inorganic compounds at concentrations greater than three times background. The soil pathway was scored on an observed contamination basis due to the presence of contaminants attributable to the site. The surface water and air pathways were scored on a potential-to-release basis.

The groundwater pathway score is 2.52. Two inorganic compounds were detected in the unconsolidated aquifer at concentrations greater than three times background levels indicating an observed release to the aquifer. The unconsolidated aquifer is utilized by an estimated population of 354 within the target distance limit (TDL). The bedrock aquifer is used by an estimated population of 1,417 within the TDL and is interconnected with the unconsolidated aquifer.

The surface water pathway score is 0.81, based on the groundwater to surface water component. Sensitive environments within the 15-mile downstream surface water TDL include wetland frontage and a state-designated area for the protection and maintenance of aquatic life. There are no surface water intakes along the downstream TDL, although the Mohawk River is used as a resource.

The soil pathway score is 1.01. There are 40 workers on site and the population within one mile of the site is 13,544.

The air pathway score is 2.88. There is a population of 75,231 people within 4 miles of the site. In addition, 10 sensitive environments exist within the TDL.

For an overall site score above 28.5 to be achieved, the unconsolidated aquifer with Level II barium contamination must be utilized by 206 people. This is an unlikely scenario because of the distance of the nearest upper aquifer users from the site.

For the surface water pathway, a sediment sample from the Mohawk River with Level II PCB contamination would raise the overall score above 28.50. However, evidence of other sources of PCBs upstream of the site have been identified. Therefore, attribution of contamination to the site would not be possible. There are no feasible scenarios for the soil and air pathways that would raise the overall site score above 28.5.

Based on the available information and analysis presented herein, a No Further Remedial Action Planned (NFRAP) is recommended for the Universal Waste & Paper site.

Record Information

1. Site Name: Universal Waste & Paper
(as entered in CERCLIS)
2. Site CERCLIS Number: NYD980509335
3. Site Reviewer: JULIA GILBERT, EMCON
4. Date: NOVEMBER 1995
5. Site Location: UTICA/ONEIDA, NEW YORK
(City/County, State)
6. Congressional District:
7. Site Coordinates: Single

Latitude: 43 06'20.0"

Longitude: 075 12'43.0"

Site Description

1. Setting: Urban
2. Current Owner: Private - Industrial
3. Current Site Status: Active
4. Years of Operation: Active Site , from and to dates: 1957 to 1995
5. How Initially Identified: State/Local Program
6. Entity Responsible for Waste Generation:
 - Recyclers
 - Landfill
 - Municipal
7. Site Activities/Waste Deposition:
 - Other - Junk/salvage yard
 - Waste Piles
 - Municipal Landfill
 - Recycling

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Waste Description

8. Wastes Deposited or Detected Onsite:

- Other - PCBs
- Solvents
- Metals

Response Actions

9. Response/Removal Actions:

- Other Removal Action Has Occurred

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- Not Applicable

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 13544.0

14. Residential Population Within 4 Miles: 75231.0

Water Use Information

15. Local Drinking Water Supply Source:

- Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 1771.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

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- Private

18. Surface Water Adjacent to/Draining Site:

- River

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PREscore 3.0 - PRESCORE.TCL File 07/25/94
HRS DOCUMENTATION RECORD
Universal Waste & Paper - 11/17/95

PAGE: 1

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7. Site Coordinates: Single

Latitude: 43 06'20.0"

Longitude: 075 12'43.0"

	Score
Ground Water Migration Pathway Score (Sgw)	2.52
Surface Water Migration Pathway Score (Ssw)	0.81
Soil Exposure Pathway Score (Ss)	1.01
Air Migration Pathway Score (Sa)	2.88
Site Score	2.02

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

TO THE PUBLIC

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Bedrock Aquifer		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	3
2d. Travel Time	35	15
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	240
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+04
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	18
Targets		
7. Nearest Well	50	5.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	1.10E+01
8d. Population (lines 8a+8b+8c)	**	1.10E+01
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	2.10E+01
12. Targets (including overlaying aquifers)	**	2.10E+01
13. Aquifer Score	100	2.52
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	2.52

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	16
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	170
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	25
3c. Potential to Release by Flood (lines 3a x 3b)	500	250
4. Potential to Release (lines 2d+3c)	500	420
5. Likelihood of Release	550	420
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10
8. Waste Characteristics	100	18
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	0.46

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 ** Maximum value not applicable.

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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	420
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	1000	180
Targets		
18. Food Chain Individual	50	0.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	0.00E+00
19d. Population (lines 19a+19b+19c)	**	0.00E+00
20. Targets (lines 18+19d)	**	0.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

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 ** Maximum value not applicable.

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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	420
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	10
25. Waste Characteristics	1000	180
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	3.55E-01
26d. Sensitive Environments (lines 26a+26b+26c)	**	3.55E-01
27. Targets (line 26d)	**	3.55E-01
28. ENVIRONMENTAL THREAT SCORE	60	0.33
29. WATERSHED SCORE	100	0.78
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.78

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: Unconsolidated Aquif		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	460
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	1.00E+04
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	18
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	0.60

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	5.00E+08
14. Hazardous Waste Quantity	*	10
15. Waste Characteristics	1000	180
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	1.50E-05
17d. Population (lines 17a+17b+17c)	**	1.50E-05
18. Targets (lines 16+17d)	**	1.50E-05
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

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GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	5.00E+08
22. Hazardous Waste Quantity	*	10
23. Waste Characteristics	1000	180
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	1.77E-01
24d. Sensitive Environments (lines 24a+24b+24c)	**	1.77E-01
25. Targets (line 24d)	**	1.77E-01
26. ENVIRONMENTAL THREAT SCORE	60	0.21
27. WATERSHED SCORE	100	0.81
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.81

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

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SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10
4. Waste Characteristics	100	18
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	5.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	5.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	4.95E+04

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

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SOIL EXPOSURE PATHWAY SCORESHEET
Universal Waste & Paper - 11/17/95

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	1.00E+01
13. Area of Contamination	100	1.00E+02
14. Likelihood of Exposure	500	1.25E+02
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	100	18
Targets		
18. Nearby Individual	1	1.00E+00
19. Population Within 1 Mile	**	1.40E+01
20. Targets (lines 18+19)	**	1.50E+01
21. NEARBY POPULATION THREAT SCORE	**	3.38E+04
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	1.01

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

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AIR PATHWAY SCORESHEET

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AIR MIGRATION PATHWAY Factor Categories & Factors		
	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	360
2b. Particulate Potential to Release	500	280
2c. Potential to Release	500	360
3. Likelihood of Release	550	360
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+02
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	6
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	8.30E+01
8d. Population (lines 8a+8b+8c)	**	8.30E+01
9. Resources	5	5.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	2.00E+00
10c. Sens. Environments (lines 10a+10b)	***	2.00E+00
11. Targets (lines 7+8d+9+10c)	**	1.10E+02
AIR MIGRATION PATHWAY SCORE (Sa)		
	100	2.88E+00

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** Maximum value not applicable.

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WASTE QUANTITY

Universal Waste & Paper - 11/17/95

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: CLAYTON PCB SOILS

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY

Universal Waste & Paper - 11/17/95

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	CLAYTON PCB SOILS	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00	420000.00
e. Source Volume/Area Value	1.24E+01	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.24E+01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
PCBs	< 2	NO	3.6E+04	ppm

Documentation for Source Type:

Based on analytical results from Clayton 1984, several soil samples were found to contain PCBs at concentrations greater than three times background levels.

Reference: 5, pp. 11 and 12 of 98

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WASTE QUANTITY

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Documentation for Secondary Source Type:

No secondary sources were observed to be associated with PCB contaminated soil.

Reference: 5, pp. 2-4 of 98

Documentation for Source Hazardous Substances:

Based on unvalidated analytical results from sampling performed by Clayton in September 1983.

PCBs were detected at location S-1, S-2, S-3, S-6, S-7, S-8, and S-9 at concentrations ranging from 1.1 to 36,000 ppm, which are greater than three times background levels. The highest concentration was used to define the contaminated area.

Location No. 4 was chosen as the background location. PCBs were not detected in the background sample.

Reference: 5, pp. 11, 12, and 39-48 of 98

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

Documentation for Source Area:

Area of contamination is the area between all soil sampling locations that detected PCBs at concentrations greater than three times background levels. Therefore, area of contamination is the area defined by S-1, S-2, S-3, S-9, S-6, S-7, S-8, and S-1.

Area estimated to be 1400 ft. by 300 ft. = 420,000 ft.

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Reference: 5, p. 11 of 98

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WASTE QUANTITY

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: CLAYTON TCE SOILS

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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TOTAL 10/10

WASTE QUANTITY

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	CLAYTON TCE SOILS
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00 270000.00
e. Source Volume/Area Value	7.94E+00
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	7.94E+00

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Trichloroethylene	< 2	NO	6.5E+00	ppm

Documentation for Source Type:

Based on analytical results from Clayton 1984, several soil samples were found to contain concentrations of trichloroethylene (TCE) at concentrations greater than three times background levels.

Reference: 5, pp. 11 and 12 of 98

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WASTE QUANTITY

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Documentation for Secondary Source Type:

No secondary sources were observed to be associated with TCE-contaminated soil.

Reference: 5, pp. 2-4 of 98

Documentation for Source Hazardous Substances:

Based on unvalidated analytical results from sampling performed by Clayton in September 1983.

S-5, S-6, S-7, and S-8 were found to be contaminated with TCE at concentrations ranging from 66.9 to 6480 ppb, which are greater than three times background levels. The highest concentration was used to define the contaminated area.

S-4 was designated as background because it contained the lowest concentrations of organic constituents. TCE was not detected in S-4.

Reference: 5, pp. 11, 12 and 39-48 of 98

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

Documentation for Source Area:

Area of contamination is the area between all soil sampling locations that detected TCE at concentrations greater than three times background levels. Therefore, the area of contamination is the area defined by S-5, S-6, S-7, S-8, and S-5.

Area estimated to be 900 ft. by 300 ft. = 270,000 ft.

Reference: 5, p. 11 of 98

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WASTE QUANTITY

Universal Waste & Paper - 11/17/95

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: EBASCO UW-SS04

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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WASTE QUANTITY

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	EBASCO UW-SS04
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00 1.00
e. Source Volume/Area Value	2.94E-05
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-05

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Barium	< 2	NO	4.2E+02	ppm
Cadmium	< 2	NO	3.9E+00	ppm
Chlordane	< 2	NO	1.6E-02	ppm
DDT	< 2	NO	2.3E-02	ppm
Lead	< 2	NO	1.5E+03	ppm

Documentation for Source Type:

Based on analytical results from Ebasco 1992, soil sample UW-SS04 was found to contain several inorganic and organic contaminants at concentrations greater than three times background levels.

Ref. 10, pp. 95, 97, 129-133, 149, 150, 209, and 210 of 212

Reference: 4, pp. 27-32 of 37

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Documentation for Secondary Source Type:

There are no secondary sources associated with UW-SS04.

Reference: 32, p. 6 of 7

Documentation for Source Hazardous Substances:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Barium (425 ppm), cadmium (3.9J ppm), lead (1520 ppm), DDT (23J ppb), and alpha chlordanes (16PJ ppb) were found in UW-SS04 at concentrations greater than three times background levels.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background sample are as follows: 49.9 ppm barium, 0.6J ppm cadmium, 232WJ ppm lead, 4.2UJ ppb DDT, and 2.2UJ alpha chlordanes.

Ref. 10, pp. 89, 95, 97, 120, 121, 129-133, 146, 149, 150, 206, 209, and 210 of 212.

Reference: 4, pp. 27-32 of 37

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

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Documentation for Source Area:

Contaminated soil area is unknown. Area assumed to be 1 sq. ft.

Reference: 32, p. 6 of 7

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: EBASCO UW-SS02

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	EBASCO UW-SS02
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00 1.00
e. Source Volume/Area Value	2.94E-05
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-05

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Barium	< 2	NO	1.7E+02	ppm
Benz (a) anthracene	< 2	NO	7.3E-01	ppm
Benzene	< 2	NO	7.2E-02	ppm
Cadmium	< 2	NO	6.0E+00	ppm
Chromium	< 2	NO	6.8E+01	ppm
Copper	< 2	NO	1.9E+02	ppm
Indeno (1,2,3-CD) pyrene	< 2	NO	4.5E-01	ppm
Methyl ethyl ketone	< 2	NO	9.1E-02	ppm
Methyl Napthalene, 2-	< 2	NO	5.6E-01	ppm
Nickel	< 2	NO	1.6E+02	ppm
PCBs	< 2	NO	4.2E+00	ppm
Phenanthrene	< 2	NO	9.2E-01	ppm
Toluene	< 2	NO	1.5E-01	ppm
Xylene, m-	< 2	NO	1.9E-01	ppm

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Documentation for Source Type:

Based on analytical results from Ebasco 1992, soil sample, UW-SS02, was found to contain several inorganic and organic contaminants at concentrations greater than three times background levels.

Ref. 10, pp. 91, 123, 124, 147, and 207 of 212

Reference: 4, pp. 5 and 28-32 of 37

Documentation for Secondary Source Type:

No secondary sources were observed in association with this sampling location.

Reference: 32, pp. 4 and 7 of 7

Documentation for Source Hazardous Substances:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Barium (169 ppm), cadmium (6 ppm), chromium (68.3 ppm), copper (191), nickel (160J ppm), 2-butanone (91 ppb), benzene (72 ppb), toluene (150 ppb), total xylene (190 ppb), 2-methyl naphthalene (560J ppb), phenanthrene (920J ppb), benzo(a)anthracene (730J ppb), indeno(1,2,3-cd)pyrene (450 ppb), and PCBs (4200J ppb) were detected in UW-SS02 at concentrations greater than three times background levels.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background sample are as follows: 49.9 ppm barium, 0.6J ppm cadmium, 13.3 ppm chromium, 53NJ ppm copper, 24.7J ppm nickel, undetectable 2-butanone, 13UJ ppb benzene, 13UJ ppb toluene, 13UJ ppb xylene, 420UJ ppb 2-methyl naphthalene, 250J phenanthrene, 230J ppb benzo(a)anthracene, 120J ppb indeno(1,2,3-cd)pyrene, and 160J ppb PCBs.

Ref. 10, pp. 89, 91, 120, 121, 123, 124, 146, 147, 206, and 207 of

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Reference: 4, pp. 27-32 of 37

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

Documentation for Source Area:

Although Ebasco observed an area of stained soil approximately 600 ft. by 200 ft. during the 1992 site inspection, only one soil sample was collected. Therefore the extent of contamination is not known. An estimated area of contamination of 1 sq. ft. was used.

Reference: 11, p. 2 of 25

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: LANDFILL

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	LANDFILL
b. Source Type	Landfill
c. Secondary Source Type	N.A.
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00 1.00
e. Source Volume/Area Value	2.94E-04
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-04

Documentation for Source Type:

According to the Oneida County Department of Environmental Health, the Universal Waste site was previously the old Utica Landfill. Evidence of old refuse was seen on northern portions of the site during the ARCS II site inspection, where recent clearing had been done.

Reference: 3, p. 3 of 7; 6, p. 1 of 1

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Documentation for Secondary Source Type:

No secondary sources were associated with the former landfill.

Reference: 3, p. 3 of 7

Documentation for Source Hazardous Substances:

There are no known contaminants associated with the landfill source. No sampling has been done to confirm the presence/absence of contaminants that are attributed to the landfill source.

Reference:

Documentation for Source Volume:

Landfill area (Tier D) data only. No Tier C data available.

Reference:

Documentation for Source Area:

The area of the landfill is unknown, but was estimated to be 1 sq. ft.

Reference:

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: EBASCO UW-SS03

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	EBASCO UW-SS03	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00	1.00
e. Source Volume/Area Value	2.94E-05	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-05	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Cadmium	< 2	NO	3.4E+00	ppm
Chromium	< 2	NO	6.4E+01	ppm
Cobalt	< 2	NO	2.2E+01	ppm
Di-n-butyl phthalate	< 2	NO	2.7E+00	ppm
Iron	< 2	NO	6.7E+04	ppm
Nickel	< 2	NO	1.2E+02	ppm
Vanadium	< 2	NO	8.8E+01	ppm

Documentation for Source Type:

Based on analytical results from Ebasco 1992, soil sample UW-SS03 was found to contain several inorganics and organic contaminants at concentrations greater than three times background levels.

Reference: 4, pp. 27-32 of 37; 10, pp. 93, 126, 127, 148, & 208 of 212

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Documentation for Secondary Source Type:

No secondary sources were observed to be associated with UW-SS03.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Source Hazardous Substances:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Cadmium (3.4 J), chromium (63.6 ppm), cobalt (21.7 ppm), iron (67,300* ppm), nickel (118J ppm), vanadium (88.1J ppm), di-n-butyl phthalate (2,700J ppb), and PCBs (56,000*J ppb) were found in UW-SS03 at concentrations greater than three times background levels. Since UW-SS03 coincides with Clayton's S-1, PCB contamination in this area has been accounted for in the PCB contaminated soil source.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background soil sample are as follows: 0.60J ppm cadmium; 13.3 ppm chromium, 6.0 ppm cobalt, 14,800* ppm iron, 24.7J ppm nickel, 15.9J ppm vanadium, 420UJ ppb di-n-butyl phthalate, and 160J ppb PCBs.

Ref. 10, pp. 89, 93, 120, 121, 126, 127, 146, 148, 206, and 208 of 212

Reference: 4, pp. 27-32 of 37; 5, pp. 11 & 12 of 98

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

WASTE QUANTITY

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Documentation for Source Area:

Although Ebasco noted an area of stained soil surrounding the location of UW-SS03, the area of the contamination is unknown. Area of contamination was estimated to be 1 sq. ft.

Reference: Figure 2; 4, p. 5 of 37

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: CLAYTON B-5 SUBSURF

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	CLAYTON B-5 SUBSURF
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00 1.00
e. Source Volume/Area Value	2.94E-05
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-05

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Cadmium	> 2	NO	4.0E-02	ppm
Lead	> 2	NO	5.0E-01	ppm

Documentation for Source Type:

Based on unvalidated analytical results from Clayton 1984, subsurface soil at location B-5 was found to be contaminated with two inorganics at concentrations greater than three times background levels within the 10 to 12 ft. interval.

Reference: 5, pp. 25 and 26 of 98

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Documentation for Secondary Source Type:

No secondary sources were found to be associated with this source.

Reference: 5, pp. 22 and 23 of 98

Documentation for Source Hazardous Substances:

Based on unvalidated analytical results from sampling performed by Clayton on September 27, 1983.

Cadmium (0.04 ppm) and lead (0.5 ppm) were detected in the 10-12 ft. interval at location B-5 at concentrations greater than three times background levels.

B-1 was designated as the background subsurface soil location because of its offsite, upgradient location. Cadmium concentrations at the background location were 0.0025 and 0.010 ppm. Lead concentrations at B-1 were 0.010 and 0.043 ppm.

Reference: 5, pp. 25, 26, and 73 of 98

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

Documentation for Source Area:

Contaminated soil area unknown, estimated to be 1 sq. ft.

Reference:

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: CLAYTON B-4 SUBSURF

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	CLAYTON B-4 SUBSURF
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Vol. (yd3/gal) Source Area (ft2)	0.00 1.00
e. Source Volume/Area Value	2.94E-05
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.94E-05

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
PCBs	> 2	NO	1.8E+00	ppm

Documentation for Source Type:

Based on unvalidated analytical results from Clayton 1984, subsurface soil sample B-4 was found to contain PCBs at concentrations greater than three times background levels in the 10 to 12 ft. interval.

Reference: 5, pp. 25 and 26 of 98

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Documentation for Secondary Source Type:

No secondary sources were found to be associated with this source.

Reference: 5, pp. 22 and 23 of 98

Documentation for Source Hazardous Substances:

Based on unvalidated analytical results from sampling performed by Clayton on September 22, 1983.

PCB (1.8 ppm) was found at B-4 in the 10-12 ft. interval at concentrations greater than three times background levels.

B-1 was designated as the background sample because of its offsite, upgradient location. Concentrations of PCB in B-1 were less than 1 ppm.

Reference: 5, pp. 25, 26, and 73 of 98

Documentation for Source Volume:

Contaminated soil area (Tier D) data only. No Tier C data available.

Reference:

Documentation for Source Area:

Contaminated soil area is unknown, estimated to be 1 sq. ft.

Reference:

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3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No. Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1 CLAYTON PCB SOILS	GW-SW-SE-A	1.24E+01	0.00E+00	1.24E+01
2 CLAYTON TCE SOILS	GW-SW-SE-A	7.94E+00	0.00E+00	7.94E+00
3 EBASCO UW-SS04	GW-SW-SE-A	2.94E-05	0.00E+00	2.94E-05
4 EBASCO UW-SS02	GW-SW-SE-A	2.94E-05	0.00E+00	2.94E-05
5 LANDFILL	GW-SW-SE-A	2.94E-04	0.00E+00	2.94E-04
6 EBASCO UW-SS03	GW-SW-SE-A	2.94E-05	0.00E+00	2.94E-05
7 CLAYTON B-5 SUBSURF	GW-SW	2.94E-05	0.00E+00	2.94E-05
8 CLAYTON B-4 SUBSURF	GW-SW	2.94E-05	0.00E+00	2.94E-05

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4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+04	10	18
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10	18
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	10	180
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	10	180
SW: GW to SW, DW	Tox./Persistence	1.00E+04	10	18
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+08	10	180
SW: GW to SW, Env	Etox./Persis./Bioacc.	5.00E+08	10	180
Soil Exposure: Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	2.00E+02	10	6

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water
 GW = Ground Water
 DW = Drinking Water Threat
 HFC = Human Food Chain Threat
 Env = Environmental Threat

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No.	Aquifer ID	Type	Overlaying No.	Inter- Connected with	Likelihood of Release	Targets
1	Unconsolidated Aquif	Non K	0	0	550	1.30E+01
2	Bedrock Aquifer	Non K	1	1	550	2.10E+01

Containment

No.	Source ID	HWQ Value	Containment Value
1	CLAYTON PCB SOILS	1.24E+01	10
2	CLAYTON TCE SOILS	7.94E+00	10
3	EBASCO UW-SS04	2.94E-05	10
4	EBASCO UW-SS02	2.94E-05	10
5	LANDFILL	2.94E-04	10
6	EBASCO UW-SS03	2.94E-05	10
7	CLAYTON B-5 SUBSURF	2.94E-05	10
8	CLAYTON B-4 SUBSURF	2.94E-05	10

=====
Containment Factor 10

Documentation for Ground Water Containment, Source CLAYTON PCB SOILS:

Based on HRS Table 3-2.
No evidence of groundwater contamination of PCBs and no liner.
Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, p. 2 of 7

Documentation for Ground Water Containment, Source CLAYTON TCE SOILS:

Based on HRS Table 3-2.
No evidence of groundwater contamination of TCE and no liner.
Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, p. 2 of 7

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GROUND WATER PATHWAY AQUIFER SUMMARY

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Documentation for Ground Water Containment, Source EBASCO UW-SS04:

Based on HRS Table 3-2.

Evidence of hazardous substance migration from the source area = 10.
Barium was detected in UW-SS04 and in a nearby groundwater well (UW-GW03) at concentrations greater than three times background levels.

Ref. 10, pp. 202, 209, and 210 of 212

Reference: 1, p. 1 of 1; 4, pp. 5, 31, and 35 of 37

Documentation for Ground Water Containment, Source EBASCO UW-SS02:

Based on HRS Table 3-2.

No evidence of groundwater contamination and no liner.
Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, p. 2 of 7

Documentation for Ground Water Containment, Source LANDFILL:

Based on HRS Table 3-2.

No evidence of groundwater contamination and no liner. Site is an unlined scrap metal yard, portions of which were a former landfill.
No liner = 10.

Reference: 1, p. 1 of 1; 3, p. 3 of 7; 4, p. 3 of 37; 6, p. 1 of 1

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Documentation for Ground Water Containment, Source EBASCO UW-SS03:

Based on HRS Table 3-2.
No evidence of groundwater contamination and no liner.
Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Ground Water Containment, Source CLAYTON B-5 SUBSURF:

Based on HRS Table 3-2.
No evidence of groundwater contamination of cadmium or lead and no liner. Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Ground Water Containment, Source CLAYTON B-4 SUBSURF:

Based on HRS Table 3-2.
No evidence of groundwater contamination of PCBs and no liner.
Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Net Precipitation

Net Precipitation (inches)

N.A.

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Documentation for Net Precipitation:

Based on HRS Figure 3-2.

Net precipitation factor value for the Utica area = 6.

Reference: 1, p. 1 of 1

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Aquifer: Unconsolidated Aquifer

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Unconsolidated Aquifer Aquifer:

Unconsolidated overburden at the site consists of a 10-foot layer of fill underlain by glaciofluvial and glaciolacustrine deposits of silt and clay. Boring logs from onsite monitoring wells indicate that wells are completed in a sand and gravel layer. The sand and gravel layer has a maximum known thickness of approximately 10 ft. Occasional isolated sand and gravel units are interbedded with silt and clay units at depth in unconsolidated deposits. Glaciofluvial and glaciolacustrine deposits are generally limited to the Mohawk River Valley and thin to the north and south. In upland areas within four miles of the site, bedrock is overlain by compact ground moraine (till).

The maximum known thickness of unconsolidated deposits near the site is 107 ft.

Because unconsolidated silt and clay deposits directly overlie bedrock, the unconsolidated aquifer is in direct connection with the bedrock aquifer.

Groundwater flow directions in the unconsolidated aquifer in the vicinity of the site is easterly to southeasterly.

Reference: 4, p. 20 of 37; 5, pp. 60-66 of 98; 12, p. 7 of 7

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No.	Well ID	Well Type	Distance (miles)	Level of Contamination
1	UW-GW03	Monitoring Well	0.000	Level II
2	UW-GW04	Monitoring Well	0.000	Level II

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Well No.	Hazardous Substance	Concent.	MCL	Cancer	RFD	Units
1	Barium	1.4E+03	2.0E+03	0.0E+00	2.5E+03	ppb
1	Mercury	8.1E-01	2.0E+00	0.0E+00	1.1E+01	ppb
2	Barium	9.3E+02	2.0E+03	0.0E+00	2.5E+03	ppb
=====						
Observed Release Factor					550	

Documentation for Well UW-GW03:

Validated analytical results of groundwater samples collected by Ebasco in March 1992 indicated the presence of two inorganics at concentrations greater than three times background levels in one monitoring well on the site.

Barium (1350 ppb) and mercury (0.81J ppb) were detected in UW-GW03 at concentrations greater than three times levels in the background monitoring well. UW-GW01 was designated as the background well. Barium was present in UW-GW01 at 183 ppb. Mercury was not detected in UW-GW01.

Reference: 4, pp. 27 and 33-35 of 37; 10, pp. 201 and 202 of 212

Documentation for Well UW-GW04:

Validated analytical results of groundwater samples collected by Ebasco in March 1992 indicated the presence of one inorganic compound in UW-GW04 at concentrations greater than three times background levels.

Barium (929 ppb) was detected in UW-GW04 at concentrations greater than three times background levels. UW-GW01 was designated as the background sample because of its offsite, upgradient location. Barium was detected in UW-GW01 at a concentration of 183 ppb.

Reference: 4, pp. 27 and 33-35 of 37; 10, pp. 201 and 211 of 212

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POTENTIAL TO RELEASE

Containment

Containment Factor 10

Net Precipitation

Net Precipitation Factor 6

Depth to Aquifer

A. Depth of Hazardous Substances 12.00 feet

Documentation for Depth of Hazardous Substances:

Subsurface soil samples collected by Clayton Environmental in December 1983 indicated contamination greater than three times background at a depth of 10-12 feet. PCBs (1.8 ppm) were detected at levels three times greater than background.

Reference: 5, pp. 25 and 26 of 98

B. Depth to Aquifer from Surface 6.60 feet

Documentation for Depth to Aquifer from Surface :

Based on depth to water measurements by Ebasco in 1992 and monitoring well elevations as indicated on boring logs at UW-GW01 (B-1) and UW-GW03 (B-3).

UWGW-03: depth to water = 8.42 ft.PVC

PVC elevation = 100.13

ground surface elevation = 98.28

depth to water below ground surface = 6.57

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UWG-04: depth to water = 9.17 ft. PVC
PVC elevation = 102.93
ground surface elevation = 101.40
depth to water below ground surface = 7.64

Reference: 5, pp. 62 and 63 of 98; 32, pp. 5 and 6 of 7

C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	
Travel Time		

Are All Layers Karst?	NO	

Documentation for Karst Layers:

Unconsolidated materials beneath the site consists of fill underlain by silt and clay units.

Reference: 5, pp. 60-66 of 98

Thickness of Layer(s) with Lowest Conductivity	0.00	feet
--	------	------

Documentation for Thickness of Layers with Lowest Conductivity:

The overburden aquifer is located within 10 feet of the surface. Therefore, based on HRS Section 3.1.2.4, a thickness of 0.0 feet was assigned.

Reference: 1, p. 1 of 1; 32, pp. 5 and 6 of 7

Hydraulic Conductivity (cm/sec)	9.0E-04
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TOTAL

Documentation for Hydraulic Conductivity:

Based on average permeability calculated by Clayton (1984) from in situ permeability tests on B-1, B-5, and B-7.

Average permeability = 19.48 gpd/sq. ft. = $9.2E-4$ cm/sec.

Reference: 5, pp. 21, 68 and 69 of 98

Travel Time Factor

35

=====

Potential to Release Factor

460

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Aquifer: Bedrock Aquifer

Type of Aquifer: Non Karst

Overlaying Aquifer: 1

Interconnected with: 1

Documentation for Bedrock Aquifer Aquifer:

The bedrock aquifer underlies and is in direct connection with the overlying unconsolidated aquifer.

The bedrock aquifer beneath the site consists of Utica Shale, a black to grey carbonaceous shale. Groundwater from this aquifer is influenced by secondary permeability features.

The topography of the area suggests that private wells within the 4-mile radius are drilled to bedrock. Private wells within the area of concern are predominantly located in upland areas.

Reference: 4, p. 20 of 37; 12, pp. 4-6 of 7

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination

- N/A and/or data not specified				

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Observed Release Factor	0
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POTENTIAL TO RELEASE

Containment

Containment Factor 10

Net Precipitation

Net Precipitation Factor 6

Depth to Aquifer

A. Depth of Hazardous Substances 12.00 feet

Documentation for Depth of Hazardous Substances:

Subsurface soil samples collected by Clayton Environmental in December 1983, indicated contamination greater than three times background at a depth of 10-12 feet.

Reference: 5, pp. 25 and 26 of 98

B. Depth to Aquifer from Surface 107.00 feet

Documentation for Depth to Aquifer from Surface :

Depth to bedrock beneath the site is unknown. Based on a USGS Water Supply Paper, the maximum known thickness of unconsolidated deposits in the vicinity of the site = 107 ft.

Therefore, the minimum depth to bedrock is assumed to be 107 ft.

Reference: 12, p. 7 of 7

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C. Depth to Aquifer (B - A) 95.00 feet

Depth to Aquifer Factor 3

Travel Time

Are All Layers Karst? NO

Documentation for Karst Layers:

Bedrock beneath the site is Utica Shale.

Reference: 12, pp. 5 and 6 of 7

Thickness of Layer(s) with Lowest Conductivity 76.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

Two isolated sand and gravel units have been identified in the unconsolidated deposits in the vicinity of the site. The units are 23 ft. and 8 ft. thick.

Therefore, the maximum known thickness of low permeability silt and clay deposits overlying the bedrock aquifer = $107 - 23 - 8 = 76$ ft.

Reference: 12, p. 7 of 7

Hydraulic Conductivity (cm/sec) 1.0E-06

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Documentation for Hydraulic Conductivity:

Based on HRS Table 3-6.

The permeability of clay and silt deposits = $1.0E-6$ cm/sec.

Reference: 1, p. 1 of 1; 12, p. 7 of 7

Travel Time Factor

15

=====

Potential to Release Factor

240

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2000

Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
PCBs	10000	2.00E-07	2.00E-03

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Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
-----	-----	-----	-----
Trichloroethylene	10	1.00E-02	1.00E-01

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Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Barium	10000	1.00E-02	1.00E+02
Cadmium	10000	2.00E-01	2.00E+03
Chlordane	10000	2.00E-07	2.00E-03
DDT	1000	2.00E-07	2.00E-04
Lead	10000	2.00E-05	2.00E-01

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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Barium	10000	1.00E-02	1.00E+02
Benz(a)anthracene	1000	2.00E-09	2.00E-06
Benzene	100	1.00E+00	1.00E+02
Cadmium	10000	2.00E-01	2.00E+03
Chromium	10000	1.00E-02	1.00E+02
Copper	100	1.00E-02	1.00E+00
Indeno(1,2,3-CD)pyrene	100	2.00E-09	2.00E-07
Methyl ethyl ketone	10	1.00E+00	1.00E+01
Methyl Napthalene, 2-	100	2.00E-03	2.00E-01
Nickel	100	2.00E-05	2.00E-03
PCBs	10000	2.00E-07	2.00E-03
Phenanthrene	100	2.00E-05	2.00E-03
Toluene	10	1.00E-02	1.00E-01
Xylene, m-	1	1.00E-02	1.00E-02

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Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value

Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
-----	-----	-----	-----
Cadmium	10000	2.00E-01	2.00E+03
Chromium	10000	1.00E-02	1.00E+02
Cobalt	1	1.00E-02	1.00E-02
Di-n-butyl phthalate	10	2.00E-03	2.00E-02
Iron	100	1.00E-02	1.00E+00
Nickel	100	2.00E-05	2.00E-03
Vanadium	100	2.00E-07	2.00E-05

Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Cadmium	10000	2.00E-01	2.00E+03
Lead	10000	2.00E-05	2.00E-01

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Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
PCBs	10000	2.00E-07	2.00E-03

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Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
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- N/A and/or data not specified

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Toxicity/Mobility Value from Source Hazardous Substances:	2.00E+03
Toxicity/Mobility Value from Observed Release Hazardous Substances:	1.00E+04
Toxicity/Mobility Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

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NO
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Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination Population
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- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

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Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	0.0	0.00E+00
> 2 to 3	161.0	2.10E+00
> 3 to 4	193.0	1.30E+00

Potential Contamination Factor: 3.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

Based on population on private well calculations by Ebasco.
Population on wells within 0 to 0.25 mile of the site = 0

Reference: 15, pp. 1 and 2 of 2

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

Based on population on private well calculations by Ebasco.
Population on wells within 0.25 to 0.5 mile = 0.

Reference: 15, pp. 1 and 2 of 2

Documentation for Target Population > 1/2 to 1 mile Distance Category:

Based on population on private well calculations by Ebasco.
Population on wells within 0.5 to 1.0 mile of the site = 0.

Reference: 15, pp. 1 and 2 of 2

Documentation for Target Population > 1 to 2 miles Distance Category:

Based on calculations by Ebasco of population on private wells.
Population served by private wells within 1 to 2 miles = 2.
Because bedrock is the dominant aquifer, it is assumed that both
users in this radius ring draw water from the bedrock aquifer.
Therefore, population served by unconsolidated aquifer = 0.

Reference: 15, pp. 1 and 2 of 2; 35, p. 1 of 1

Documentation for Target Population > 2 to 3 miles Distance Category:

Based on calculations by Ebasco of population on private wells.
Population served by private wells within 2 to 3 miles = 803.
Because bedrock is the dominant aquifer, it is assumed that 20% of
the private well users draw water from the unconsolidated aquifer.
Therefore, population drawing water from the unconsolidated
aquifer = $803 * 0.2 = 161$ people.

Reference: 15, pp. 1 and 2 of 2; 35, p. 1 of 1

Documentation for Target Population > 3 to 4 miles Distance Category:

Based on calculations by Ebasco of population on private wells.
Population served by private wells within 3 to 4 miles = 966.
Because bedrock is the dominant aquifer, it is assumed that 20% of
the private well users draw water from the unconsolidated aquifer.
Therefore, population drawing from the unconsolidated aquifer =
 $966 * 0.2 = 193$ people.

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Reference: 15, pp. 1 and 2 of 2; 35, p. 1 of 1

Nearest Well

Level of Contamination: Potential
Distance in miles: 1.80

Nearest Well Factor: 5.00E+00

Documentation for Nearest Well:

The nearest drinking water well is approximately 1.8 miles southeast of the site. Although the depth of the well is not known, the well is located on terraces along the side of the river valley and may be screened in unconsolidated sand and gravel lenses.

Reference: Figure 1; 4, p. 21 of 37; 23, p. 1 of 1

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

According to the Herkimer County Department of Public Health, private wells tap both sand and gravel layers in unconsolidated deposits and bedrock.

Because rural areas in Oneida and Herkimer Counties are dominated by agriculture, it seems likely that commercial livestock and commercial produce raised in the area utilize water obtained from the overburden aquifer.

Reference: 16, p. 1 of 1

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Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

There are no wellhead protection areas located within 4 miles of the site.

Reference: 18, p. 1 of 1

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Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination Population
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- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

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Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	2.0	7.00E-02
> 2 to 3	642.0	6.80E+00
> 3 to 4	773.0	4.20E+00

Potential Contamination Factor: 11.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

Based on population on private wells calculations by Ebasco.
Population on wells within 0 to 0.25 mile of the site = 0.

Reference: 15, pp. 1 and 2 of 2

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

Based on population served by wells calculations by Ebasco.
Population on private wells within 0.25 to 0.5 mile = 0.

Reference: 15, p. 1 of 2

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Documentation for Target Population > 1/2 to 1 mile Distance Category:

Based on population served by private wells calculations by Ebasco.
Population served by private wells within 0.5 to 1 mile = 0.

Reference: 15, p. 1 of 2

Documentation for Target Population > 1 to 2 miles Distance Category:

Based on calculations by Ebasco of population on private wells.
Population served by private wells within 1 to 2 miles = 2.

Reference: 15, p. 1 of 2

Documentation for Target Population > 2 to 3 miles Distance Category:

Based on calculations by Ebasco of population on private wells.
Population served by private wells within 2 to 3 miles = 803.
Because bedrock is the dominant aquifer, it is assumed that 80% of
the private well user population draws water from the bedrock
aquifer.
Therefore, population drawing from the bedrock aquifer = $803 * 0.8 = 642$ people.

Reference: 15, p. 1 of 2; 35, p. 1 of 1

Documentation for Target Population > 3 to 4 miles Distance Category:

Based on calculations by Ebasco of population on private wells.
Population served by private wells within 3 to 4 miles = 966.
Because bedrock is the dominant aquifer in the area, it was
assumed that 80% of the private well users draw groundwater from the
bedrock aquifer.
Therefore, private population getting water from the bedrock

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aquifer = $966 * 0.8 = 773$ people.

Reference: 15, p. 2 of 2; 35, p. 1 of 1

Nearest Well

Level of Contamination: Potential
Distance in miles: 1.80

Nearest Well Factor: 5.00E+00

Documentation for Nearest Well:

In 1992 Ebasco determined that the nearest drinking water well is approximately 1.8 miles to the southeast of the site. Since the depth of the well is not known it is assumed that the well is screened in the bedrock aquifer.

Reference: 4, p. 21 of 37; 23, p. 1 of 1

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

According to the Herkimer County Department of Public Health, private wells obtain groundwater from the unconsolidated overburden as well as bedrock.

Because the surrounding rural areas are dominated by agriculture, it is highly likely that groundwater from the bedrock aquifer is utilized for drinking by commercial livestock and/or irrigation of commercial or forage crops.

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Reference: 16, p. 1 of 1

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

There are no well head protection areas located within 4 miles of the site.

Reference: 18, p. 1 of 1

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PREscore 3.0 - PRESCORE.TCL File 07/25/94
SURFACE WATER PATHWAY SEGMENT SUMMARY
Universal Waste & Paper - 11/17/95

PAGE: 75

No. Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1 MOHAWK RIVER	River	Fresh	-0.02	15.00	495

Documentation for segment: MOHAWK RIVER:

An average low-flow discharge rate was calculated from a total of 7 readings from 2 gauging stations along the Mohawk River at Utica.
Average low-flow discharge rate = 495 cu. ft./sec.
= (438+705+491+695+313+374+449)/7

Reference: 22, p. 4 of 4

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No. Sample ID	Sample Type	Distance (miles)	Level of Contamination		
			DW	HFC	Env

- N/A and/or data not specified

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Observed Release Factor	0
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POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	CLAYTON PCB SOILS	1.24E+01	10
2	CLAYTON TCE SOILS	7.94E+00	10
3	EBASCO UW-SS04	2.94E-05	10
4	EBASCO UW-SS02	2.94E-05	10
5	LANDFILL	2.94E-04	10
6	EBASCO UW-SS03	2.94E-05	10
7	CLAYTON B-5 SUBSURF	2.94E-05	10
8	CLAYTON B-4 SUBSURF	2.94E-05	10

=====

Containment Factor: 10

Documentation for Overland Flow Containment, Source CLAYTON PCB SOILS:

Although PCBs and TCE have been detected in a downgradient intermittent surface water location, concentrations upgradient from the site are higher. Therefore, it cannot be confirmed that sources at the site are contaminating in-water segments of surface water.

Based on HRS Table 4-2, no evidence of hazardous substance migration, and no maintained engineered cover, run-on control system, or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 5, pp. 16 and 17 of 98

Documentation for Overland Flow Containment, Source CLAYTON TCE SOILS:

Although PCBs and TCE have been detected in an intermittent downgradient location, concentrations upgradient from the site are higher. Therefore, it cannot be confirmed that sources at the site are contaminating in-water segments of surface water.

Based on HRS Table 4-2, no evidence of hazardous substance

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migration, and no maintained engineered cover, run-on control system, or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 5, pp. 16 and 17 of 98

Documentation for Overland Flow Containment, Source EBASCO UW-SS04:

Based on HRS Table 4-2.

No evidence of hazardous substance migration, and no maintained engineered cover, run-on control system or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 5, pp. 16 and 17 of 98

Documentation for Overland Flow Containment, Source EBASCO UW-SS02:

Based on HRS Table 4-2.

No evidence of hazardous substance migration, and no maintained engineered cover, run-on control system or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Overland Flow Containment, Source LANDFILL:

Based on HRS Table 4-2.

No evidence of hazardous substance migration, and no maintained engineered cover, run-on control system or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

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Documentation for Overland Flow Containment, Source EBASCO UW-SS03:

Based on HRS Table 4-2, no evidence of hazardous substance migration, and no maintained engineered cover, run-on control system or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Overland Flow Containment, Source CLAYTON B-5 SUBSURF:

Based on HRS Table 4-2.

No evidence of hazardous substance migration, and no maintained engineered cover, run-on control system, or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 5, pp. 25 and 26 of 98

Documentation for Overland Flow Containment, Source CLAYTON B-4 SUBSURF:

Based on HRS Table 4-2, no evidence of hazardous substance migration, and no maintained engineered cover, run-on control system, or runoff management system = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

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Distance to Surface Water

Distance to Surface Water: 1000.0 feet

Distance to Surface Water Factor: 16

Documentation for Distance to Surface Water:

Runoff from the site enters a drainage ditch to the east of the site. Runoff flows through the ditch to the Mohawk River. Total distance from areas of known contamination to the Mohawk River is approximately 1000 feet.

Reference: Figure 1; 4, p. 22 of 37

Runoff

A. Drainage Area: 23.0 acres

Documentation for Drainage Area:

Drainage area = 23 acres = acreage of the site. The entire site acreage was selected as the drainage area for a conservative estimate.

Reference: 3, p. 1 of 7

B. 2-year, 24-hour Rainfall: 2.5 inches

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Documentation for Rainfall:

The 2-year/24-hour rainfall for Oneida County is 2.5 inches.

Reference: 20, p. 3 of 3

C. Soil Group: C
Moderately-fine textured soils with low infiltration rates

Documentation for Soil Group:

Site is located in an area that has been filled. There is no information available on native deposits at the site.

There is approximately 10 feet of fill material present on the site. Standing water observed during the 1992 Ebasco and 1995 ARCS II site reconnaissances suggests that the fill material has low permeability rates.

Reference: 3, p. 7 of 7; 4, p. 20 of 37; 32, p. 3 of 7; 36, p. 1 of 1

Runoff Factor: 1

Potential to Release by Overland Flow Factor: 170

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Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood
1	CLAYTON PCB SOILS	1.24E+01	10	25	250
2	CLAYTON TCE SOILS	7.94E+00	10	25	250
3	EBASCO UW-SS04	2.94E-05	10	25	250
4	EBASCO UW-SS02	2.94E-05	10	25	250
5	LANDFILL	2.94E-04	10	25	250
6	EBASCO UW-SS03	2.94E-05	10	25	250
7	CLAYTON B-5 SUBSURF	2.94E-05	10	25	250
8	CLAYTON B-4 SUBSURF	2.94E-05	10	25	250

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Potential to Release by Flood Factor: 250

Documentation for Flood Containment, Source CLAYTON PCB SOILS:

No flood containment features were observed on the site during the site reconnaissance by Ebasco in 1992 and by ARCS II in 1995.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source CLAYTON PCB SOILS:

Universal Waste is situated in Zone A5 = 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

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Documentation for Flood Containment, Source CLAYTON TCE SOILS:

No flood containment features were observed on the site during the site reconnaissance by Ebasco in 1992 and ARCS II in 1995.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source CLAYTON TCE SOILS:

Universal Waste is situated in Zone A5 = 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

Documentation for Flood Containment, Source EBASCO UW-SS04:

No flood containment features were observed on the site during the site reconnaissance by Ebasco in 1992 and ARCS II in 1995.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source EBASCO UW-SS04:

Universal Waste is situated in Zone A5 = 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

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Documentation for Flood Containment, Source EBASCO UW-SS02:

No flood containment features were observed on the site during the site reconnaissance by Ebasco in 1992 and by ARCS II in 1995.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source EBASCO UW-SS02:

Universal Waste is situated in Zone A5 = 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

Documentation for Flood Containment, Source LANDFILL:

No flood containment features were observed on the site during the 1992 or 1995 site reconnaissance by Ebasco and ARCS II, respectively.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source LANDFILL:

Universal Waste is situated in a 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

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Documentation for Flood Containment, Source EBASCO UW-SS03:

No flood containment features were observed on the site during the 1992 and 1995 site reconnaissances by Ebasco and Wehran, respectively.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source EBASCO UW-SS03:

Universal Waste is situated in a 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

Documentation for Flood Containment, Source CLAYTON B-5 SUBSURF:

No flood containment features were observed on the site during the 1992 and 1995 site reconnaissances by Ebasco and Wehran, respectively.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source CLAYTON B-5 SUBSURF:

Universal Waste is situated in a 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

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WITHOUT AUTHORITY

Documentation for Flood Containment, Source CLAYTON B-4 SUBSURF:

No flood containment features were observed on the site during the 1992 and 1995 site reconnaissance by Ebasco and Wehran, respectively.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Flood Frequency, Source CLAYTON B-4 SUBSURF:

Universal Waste is situated in a 100-year floodplain area.

Reference: 19, pp. 2 and 3 of 3

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Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
PCBs	10000	1.00E+00	1.00E+04

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Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Trichloroethylene	10	4.00E-01	4.00E+00

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Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Barium	10000	1.00E+00	1.00E+04
Cadmium	10000	1.00E+00	1.00E+04
Chlordane	10000	1.00E+00	1.00E+04
DDT	1000	1.00E+00	1.00E+03
Lead	10000	1.00E+00	1.00E+04

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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Barium	10000	1.00E+00	1.00E+04
Benz(a)anthracene	1000	1.00E+00	1.00E+03
Benzene	100	4.00E-01	4.00E+01
Cadmium	10000	1.00E+00	1.00E+04
Chromium	10000	1.00E+00	1.00E+04
Copper	0	1.00E+00	0.00E+00
Indeno(1,2,3-CD)pyrene	0	1.00E+00	0.00E+00
Methyl ethyl ketone	10	4.00E-01	4.00E+00
Methyl Napthalene, 2-	0	4.00E-01	0.00E+00
Nickel	100	1.00E+00	1.00E+02
PCBs	10000	1.00E+00	1.00E+04
Phenanthrene	0	4.00E-01	0.00E+00
Toluene	10	4.00E-01	4.00E+00
Xylene, m-	1	4.00E-01	4.00E-01

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Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value

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Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Cadmium	10000	1.00E+00	1.00E+04
Chromium	10000	1.00E+00	1.00E+04
Cobalt	1	1.00E+00	1.00E+00
Di-n-butyl phthalate	10	1.00E+00	1.00E+01
Iron	0	1.00E+00	0.00E+00
Nickel	100	1.00E+00	1.00E+02
Vanadium	100	1.00E+00	1.00E+02

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Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Cadmium	10000	1.00E+00	1.00E+04
Lead	10000	1.00E+00	1.00E+04

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Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
PCBS	10000	1.00E+00	1.00E+04

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FOR THE PCBS

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
---------------	---	-------------------	----------------------	-----------------------------------

- N/A and/or data not specified

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Toxicity/Persistence Value from Source Hazardous Substances:	1.00E+04
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

- N/A and/or data not specified

=====

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

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Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

- N/A and/or data not specified

=====

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

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TO THE PUBLIC

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
-----------	------------------------------	----------------------

- N/A and/or data not specified

Type of Surface Water Body	Total Population	Dilution-Weighted Population
-------------------------------	---------------------	---------------------------------

- N/A and/or data not specified

=====

Dilution-Weighted Population Served by Potentially Contaminated Intakes:	0.0
---	-----

Potential Contamination Factor:	0.0
---------------------------------	-----

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

Documentation for Resources:

There are livestock that are pastured along the Mohawk River. It seems likely that commercial livestock obtain water from the river.

Reference: 16, p. 1 of 1; 18, p. 1 of 1

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Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	5.00E-01	5.00E+03
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Trichloroethylene	10	4.00E-01	5.00E+01	2.00E+02

Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	5.00E-01	5.00E+03
Cadmium	10000	1.00E+00	5.00E+03	5.00E+07
Chlordane	10000	1.00E+00	5.00E+04	5.00E+08
DDT	1000	1.00E+00	5.00E+04	5.00E+07
Lead	10000	1.00E+00	5.00E+03	5.00E+07

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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	5.00E-01	5.00E+03
Benz(a)anthracene	1000	1.00E+00	5.00E+04	5.00E+07
Benzene	100	4.00E-01	5.00E+03	2.00E+05
Cadmium	10000	1.00E+00	5.00E+03	5.00E+07
Chromium	10000	1.00E+00	5.00E+02	5.00E+06
Copper	0	1.00E+00	5.00E+04	0.00E+00
Indeno(1,2,3-CD)pyrene	0	1.00E+00	5.00E+04	0.00E+00
Methyl ethyl ketone	10	4.00E-01	5.00E-01	2.00E+00
Methyl Napthalene, 2-	0	4.00E-01	5.00E+03	0.00E+00
Nickel	100	1.00E+00	5.00E+02	5.00E+04
PCBs	10000	1.00E+00	5.00E+04	5.00E+08
Phenanthrene	0	4.00E-01	5.00E+01	0.00E+00
Toluene	10	4.00E-01	5.00E+01	2.00E+02
Xylene, m-	1	4.00E-01	5.00E+02	2.00E+02

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Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value

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Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Cadmium	10000	1.00E+00	5.00E+03	5.00E+07
Chromium	10000	1.00E+00	5.00E+02	5.00E+06
Cobalt	1	1.00E+00	5.00E-01	5.00E-01
Di-n-butyl phthalate	10	1.00E+00	5.00E+03	5.00E+04
Iron	0	1.00E+00	5.00E-01	0.00E+00
Nickel	100	1.00E+00	5.00E+02	5.00E+04
Vanadium	100	1.00E+00	5.00E-01	5.00E+01

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Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Cadmium	10000	1.00E+00	5.00E+03	5.00E+07
Lead	10000	1.00E+00	5.00E+03	5.00E+07

Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
------------	---	-------------------	----------------------	-------------------------	---

- N/A and/or data not specified

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Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	180

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Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

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Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
---------	-------------------------------	--------------------------------------

- N/A and/or data not specified
=====

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Universal Waste & Paper - 11/17/95

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value

- N/A and/or data not specified		

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

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Potential Contamination

	Annual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
Fishery						

- N/A and/or data not specified

Sum of (Pi*Di): 0.00E+00

Potential Human Food Chain Contamination Factor: 0.00E+00

Documentation for MOHAWK RIVER Fishery:

The Mohawk River is heavily fished for recreational purposes within the target distance limit of the site. According to a survey by the NYSDEC Utica Office 15 years ago, 50,000 to 75,000 people fished the river in Oneida and Herkimer Counties.

However, there is no data on the fishery production. An estimated production of 1 lb/yr. was used. There are no commercial fisheries within the target distance limit.

Reference: 29, p. 1 of 1; 30, p. 1 of 2

Food Chain Individual

Location of Nearest Fishery: N.A.

Food Chain Individual Factor: 0.00

Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	5.00E-01	5.00E-01
Mercury	10000	1.00E+00	5.00E+04	5.00E+08
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Trichloroethylene	100	4.00E-01	5.00E+01	2.00E+03

Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	5.00E-01	5.00E-01
Cadmium	1000	1.00E+00	5.00E+03	5.00E+06
Chlordane	10000	1.00E+00	5.00E+04	5.00E+08
DDT	10000	1.00E+00	5.00E+04	5.00E+08
Lead	1000	1.00E+00	5.00E+03	5.00E+06

Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	5.00E-01	5.00E-01
Benz(a)anthracene	10000	1.00E+00	5.00E+04	5.00E+08
Benzene	100	4.00E-01	5.00E+02	2.00E+04
Cadmium	1000	1.00E+00	5.00E+03	5.00E+06
Chromium	10000	1.00E+00	5.00E+00	5.00E+04
Copper	100	1.00E+00	5.00E+04	5.00E+06
Indeno(1,2,3-CD)pyrene	0	1.00E+00	5.00E+04	0.00E+00
Methyl ethyl ketone	1	4.00E-01	5.00E-01	2.00E-01
Methyl Napthalene, 2-	1000	4.00E-01	5.00E+03	2.00E+06
Nickel	10	1.00E+00	5.00E+02	5.00E+03
PCBs	10000	1.00E+00	5.00E+04	5.00E+08
Phenanthrene	1000	4.00E-01	5.00E+03	2.00E+06
Toluene	100	4.00E-01	5.00E+01	2.00E+03
Xylene, m-	100	4.00E-01	5.00E+02	2.00E+04

Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value

Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Cadmium	1000	1.00E+00	5.00E+03	5.00E+06
Chromium	10000	1.00E+00	5.00E+00	5.00E+04
Cobalt	0	1.00E+00	5.00E+03	0.00E+00
Di-n-butyl phthalate	1000	1.00E+00	5.00E+03	5.00E+06
Iron	10	1.00E+00	5.00E-01	5.00E+00
Nickel	10	1.00E+00	5.00E+02	5.00E+03
Vanadium	0	1.00E+00	5.00E-01	0.00E+00

Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Cadmium	1000	1.00E+00	5.00E+03	5.00E+06
Lead	1000	1.00E+00	5.00E+03	5.00E+06

Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

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Sample No.	Observed Release Hazardous Substance
1	1.1
2	2.2
3	3.3
4	4.4
5	5.5
6	6.6
7	7.7
8	8.8
9	9.9
10	10.10
11	11.11
12	12.12
13	13.13
14	14.14
15	15.15
16	16.16
17	17.17
18	18.18
19	19.19
20	20.20
21	21.21
22	22.22
23	23.23
24	24.24
25	25.25
26	26.26
27	27.27
28	28.28
29	29.29
30	30.30
31	31.31
32	32.32
33	33.33
34	34.34
35	35.35
36	36.36
37	37.37
38	38.38
39	39.39
40	40.40
41	41.41
42	42.42
43	43.43
44	44.44
45	45.45
46	46.46
47	47.47
48	48.48
49	49.49
50	50.50
51	51.51
52	52.52
53	53.53
54	54.54
55	55.55
56	56.56
57	57.57
58	58.58
59	59.59
60	60.60
61	61.61
62	62.62
63	63.63
64	64.64
65	65.65
66	66.66
67	67.67
68	68.68
69	69.69
70	70.70
71	71.71
72	72.72
73	73.73
74	74.74
75	75.75
76	76.76
77	77.77
78	78.78
79	79.79
80	80.80
81	81.81
82	82.82
83	83.83
84	84.84
85	85.85
86	86.86
87	87.87
88	88.88
89	89.89
90	90.90
91	91.91
92	92.92
93	93.93
94	94.94
95	95.95
96	96.96
97	97.97
98	98.98
99	99.99
100	100.100

Eco-
toxicity
Value

Persistence Value	Bio- accum. Value
----------------------	-------------------------

Ecotoxicity/
Persistence/
Bioaccum.
Value

- N/A and/or data not specified

ALL INFORMATION CONTAINED
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Ecotoxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Ecotoxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	180

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NO. 1
TOTAL 180

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

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Level I Concentrations

	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
Sensitive Environment		

- N/A and/or data not specified

Sum of Sensitive Environments Values: 0

Wetlands

	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
Wetland		

- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

=====

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
Sensitive Environment		

- N/A and/or data not specified

Sum of Sensitive Environments Values: 0

Wetlands

	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
Wetland		

- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

=====

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

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Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value

River	2 RIVERINE WETLAND	3.68	100
River	3 RIVERINE WETLAND	7.05	150
River	4 WETLAND	0.02	0
River	5 WETLAND	0.13	25
River	6 WETLAND	0.15	25
River	7 WETLAND	0.01	0
River	8 WETLAND	0.04	0
River	9 WETLAND	0.02	0
River	10 WETLAND	0.07	0
River	11 WETLAND	0.12	25
River	12 WETLAND	0.08	0
River	13 WETLAND	0.05	0
River	14 WETLAND	0.12	25
River	15 WETLAND	0.03	0

Documentation for Sensitive Environment RIVERINE WETLAND:

A riverine wetland along the Mohawk River starts at 1.8 miles from the PPE and extends to 5.48 miles from the PPE. Frontage = 3.68 miles.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

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Documentation for Sensitive Environment RIVERINE WETLAND:

A riverine wetland along the Mohawk River exists 7.95 miles from the PPE and extends to 15.00 miles from the PPE.
Frontage = 7.05 miles.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the northside of the river at 0.67 mile from the PPE and extends to 0.69 mile from the PPE. Wetland frontage = 0.02 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the northside of the river at 0.97 mile from the PPE and extends to 1.10 miles from the PPE.
Wetland frontage = 0.13 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 1.0 mile from the PPE and extends to 1.15 mile from the PPE.
Wetland frontage = 0.15 mile

Reference: 21, p. 1 of 1; 26, p. 1 of 3

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Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 1.19 miles from the PPE and extends to 1.20 miles from the PPE.
Wetland frontage = 0.01 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 2.19 miles from the PPE and extends to 2.23 miles from the PPE.
Wetland frontage = 0.04 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 2.90 miles from the PPE and extends to 2.92 miles from the PPE.
Wetland frontage = 0.02 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 2.93 miles from the PPE and extends to 3.0 miles from the PPE.
Wetland frontage = 0.07 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

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NO
10

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 6.38 miles from the PPE and extends to 6.5 miles from the PPE.
Wetland frontage = 0.12 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 10.28 miles from the PPE and extends to 10.36 miles from the PPE.
Wetland frontage = 0.08 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 11.45 miles from the PPE and extends to 11.50 miles from the PPE.
Wetland frontage = 0.05 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 13.06 miles from the PPE and extends to 13.18 miles from the PPE.
Wetland frontage = 0.12 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 13.57 miles from the PPE and extends to 13.6 miles from the PPE.
Wetland frontage = 0.03 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

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Type of Surface	Sum of Sens. Environment Values (Sj)	Sum of Wetland Frontage Values (Wj)	Dilution Weight (Dj)	Dj (Wj+Sj)
Water Body				
Moderate to Large Stream	0	250	1.00E-02	2.50E+00

Sum of Dj (Wj+Sj): 2.50E+00
 Sum of Dj (Wj+Sj)/10: 2.50E-01

=====

Potential Contamination Sensitive Environment Factor: 3.55E-01

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Containment

No.	Source ID	HWQ Value	Containment Value
1	CLAYTON PCB SOILS	1.24E+01	10
2	CLAYTON TCE SOILS	7.94E+00	10
3	EBASCO UW-SS04	2.94E-05	10
4	EBASCO UW-SS02	2.94E-05	10
5	LANDFILL	2.94E-04	10
6	EBASCO UW-SS03	2.94E-05	10
7	CLAYTON B-5 SUBSURF	2.94E-05	10
8	CLAYTON B-4 SUBSURF	2.94E-05	10

=====
Containment Factor 10

Documentation for Ground Water Containment, Source CLAYTON PCB SOILS:

Based on HRS Table 3-2.

No evidence of groundwater contamination of PCBs and no liner.

Site is an unlined scrap metal yard.

No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, p. 2 of 7

Documentation for Ground Water Containment, Source CLAYTON TCE SOILS:

Based on HRS Table 3-2.

No evidence of groundwater contamination of TCE and no liner.

Site is an unlined scrap metal yard.

No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, p. 2 of 7

Documentation for Ground Water Containment, Source EBASCO UW-SS04:

Based on HRS Table 3-2.

Evidence of hazardous substance migration from the source area = 10.
Barium was detected in UW-SS04 and in a nearby groundwater well (UW-GW03) at concentrations greater than three times background levels.

Ref. 10, pp. 202, 209, and 210 of 212

Reference: 1, p. 1 of 1; 4, pp. 5, 31, and 35 of 37

Documentation for Ground Water Containment, Source EBASCO UW-SS02:

Based on HRS Table 3-2.

No evidence of groundwater contamination and no liner.
Site is an unlined scrap metal yard.
No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, p. 2 of 7

Documentation for Ground Water Containment, Source LANDFILL:

Based on HRS Table 3-2.

No evidence of groundwater contamination and no liner. Site is an unlined scrap metal yard, portions of which were a former landfill.
No liner = 10.

Reference: 1, p. 1 of 1; 3, p. 3 of 7; 4, p. 3 of 37; 6, p. 1 of 1

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Documentation for Ground Water Containment, Source EBASCO UW-SS03:

Based on HRS Table 3-2.

No evidence of groundwater contamination and no liner.

Site is an unlined scrap metal yard.

No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Ground Water Containment, Source CLAYTON B-5 SUBSURF:

Based on HRS Table 3-2.

No evidence of groundwater contamination of cadmium or lead and no liner. Site is an unlined scrap metal yard.

No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Ground Water Containment, Source CLAYTON B-4 SUBSURF:

Based on HRS Table 3-2.

No evidence of groundwater contamination of PCBs and no liner. Site is an unlined scrap metal yard.

No liner = 10.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Net Precipitation

Net Precipitation (inches)

0.00

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Documentation for Net Precipitation:

Based on HRS Figure 3-2.

Net precipitation factor value for the Utica area = 6.

Reference: 1, p. 1 of 1

Aquifer: Unconsolidated Aquifer

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Unconsolidated Aquifer Aquifer:

Unconsolidated overburden at the site consists of a 10-foot layer of fill underlain by glaciofluvial and glaciolacustrine deposits of silt and clay. Boring logs from onsite monitoring wells indicate that wells are completed in a sand and gravel layer. The sand and gravel layer has a maximum known thickness of approximately 10 ft. Occasional isolated sand and gravel units are interbedded with silt and clay units at depth in unconsolidated deposits. Glaciofluvial and glaciolacustrine deposits are generally limited to the Mohawk River Valley and thin to the north and south. In upland areas within four miles of the site, bedrock is overlain by compact ground moraine (till).

The maximum known thickness of unconsolidated deposits near the site is 107 ft.

Because unconsolidated silt and clay deposits directly overlie bedrock, the unconsolidated aquifer is in direct connection with the bedrock aquifer.

Groundwater flow directions in the unconsolidated aquifer in the vicinity of the site is easterly to southeasterly.

Reference: 4, p. 20 of 37; 5, pp. 60-66 of 98; 12, p. 7 of 7

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination
1	UW-GW03	Monitoring Well	0.000	Level II
2	UW-GW04	Monitoring Well	0.000	Level II

Well No.	Hazardous Substance	Concent.	MCL	Cancer	RFD	Units
1	Barium	1.4E+03	2.0E+03	0.0E+00	2.5E+03	ppb
1	Mercury	8.1E-01	2.0E+00	0.0E+00	1.1E+01	ppb
2	Barium	9.3E+02	2.0E+03	0.0E+00	2.5E+03	ppb

Observed Release Factor 550

Documentation for Well UW-GW03:

Validated analytical results of groundwater samples collected by Ebasco in March 1992 indicated the presence of two inorganics at concentrations greater than three times background levels in one monitoring well on the site.

Barium (1350 ppb) and mercury (0.81J ppb) were detected in UW-GW03 at concentrations greater than three times levels in the background monitoring well. UW-GW01 was designated as the background well. Barium was present in UW-GW01 at 183 ppb. Mercury was not detected in UW-GW01.

Reference: 4, pp. 27 and 33-35 of 37; 10, pp. 201 and 202 of 212

Documentation for Well UW-GW04:

Validated analytical results of groundwater samples collected by Ebasco in March 1992 indicated the presence of one inorganic compound in UW-GW04 at concentrations greater than three times background levels.

Barium (929 ppb) was detected in UW-GW04 at concentrations greater than three times background levels. UW-GW01 was designated as the background sample because of its offsite, upgradient location. Barium was detected in UW-GW01 at a concentration of 183 ppb.

Reference: 4, pp. 27 and 33-35 of 37; 10, pp. 201 and 211 of 212

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	-0.02	miles
Angle Theta	171	

Documentation for Ground to Surface Water PPE and Angle Theta:

Groundwater to surface water PPE is located 100 ft. upstream from the overland flow PPE. Since the groundwater to surface water PPE is located upstream from the overland flow PPE, the value is negative.

The distance between the groundwater to surface water PPE and the overland flow PPE = 100 ft. = -0.019 mile.

Theta was calculated following HRS Figure 4-3.
Theta = 171 degrees.

Reference: Figure 1; 1, p. 1 of 1; 37, p. 1 of 1

Containment

Containment Factor	10
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Net Precipitation

Net Precipitation Factor	6
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Depth to Aquifer

A. Depth of Hazardous Substances	12.00	feet
----------------------------------	-------	------

Documentation for Depth of Hazardous Substances:

Subsurface soil samples collected by Clayton Environmental in December 1983 indicated contamination greater than three times background at a depth of 10-12 feet. PCBs (1.8 ppm) were detected at levels three times greater than background.

Reference: 5, pp. 25 and 26 of 98

B. Depth to Aquifer from Surface 6.60 feet

Documentation for Depth to Aquifer from Surface :

Based on depth to water measurements by Ebasco in 1992 and monitoring well elevations as indicated on boring logs at UW-GW01 (B-1) and UW-GW03 (B-3).

UWGW-03: depth to water = 8.42 ft. PVC
PVC elevation = 100.13
ground surface elevation = 98.28
depth to water below ground surface = 6.57

UWGW-04: depth to water = 9.17 ft. PVC
PVC elevation = 102.93
ground surface elevation = 101.40
depth to water below ground surface = 7.64

Reference: 5, pp. 62 and 63 of 98; 32, pp. 5 and 6 of 7

C. Depth to Aquifer (B - A) 0.00 feet

Depth to Aquifer Factor 5

Travel Time

Are All Layers Karst? NO

Documentation for Karst Layers:

Unconsolidated materials beneath the site consists of fill underlain by silt and clay units.

Reference: 5, pp. 60-66 of 98

Thickness of Layer(s) with Lowest Conductivity 0.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

The overburden aquifer is located within 10 feet of the surface. Therefore, based on HRS Section 3.1.2.4, a thickness of 0.0 feet was assigned.

Reference: 1, p. 1 of 1; 32, pp. 5 and 6 of 7

Hydraulic Conductivity (cm/sec) 9.0E-04

Documentation for Hydraulic Conductivity:

Based on average permeability calculated by Clayton (1984) from in situ permeability tests on B-1, B-5, and B-7.
Average permeability = 19.48 gpd/sq. ft. = 9.2E-4 cm/sec.

Reference: 5, pp. 21, 68 and 69 of 98

Travel Time Factor 35

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Potential to Release Factor	460
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Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
PCBs	10000	1.00E+00	2.00E-07	2.00E-03

Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
Trichloroethylene	10	4.00E-01	1.00E-02	4.00E-02

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Universal Waste & Paper - 11/17/95

Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
Barium	10000	1.00E+00	1.00E-02	1.00E+02
Cadmium	10000	1.00E+00	2.00E-01	2.00E+03
Chlordane	10000	1.00E+00	2.00E-07	2.00E-03
DDT	1000	1.00E+00	2.00E-07	2.00E-04
Lead	10000	1.00E+00	2.00E-05	2.00E-01

Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
Barium	10000	1.00E+00	1.00E-02	1.00E+02
Benz(a)anthracene	1000	1.00E+00	2.00E-09	2.00E-06
Benzene	100	4.00E-01	1.00E+00	4.00E+01
Cadmium	10000	1.00E+00	2.00E-01	2.00E+03
Chromium	10000	1.00E+00	1.00E-02	1.00E+02
Copper	0	1.00E+00	1.00E-02	0.00E+00
Indeno(1,2,3-CD)pyrene	0	1.00E+00	2.00E-09	0.00E+00
Methyl ethyl ketone	10	4.00E-01	1.00E+00	4.00E+00
Methyl Napthalene, 2-	0	4.00E-01	2.00E-03	0.00E+00
Nickel	100	1.00E+00	2.00E-05	2.00E-03
PCBs	10000	1.00E+00	2.00E-07	2.00E-03
Phenanthrene	0	4.00E-01	2.00E-05	0.00E+00
Toluene	10	4.00E-01	1.00E-02	4.00E-02
Xylene, m-	1	4.00E-01	1.00E-02	4.00E-03

Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence

Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
Cadmium	10000	1.00E+00	2.00E-01	2.00E+03
Chromium	10000	1.00E+00	1.00E-02	1.00E+02
Cobalt	1	1.00E+00	1.00E-02	1.00E-02
Di-n-butyl phthalate	10	1.00E+00	2.00E-03	2.00E-02
Iron	0	1.00E+00	1.00E-02	0.00E+00
Nickel	100	1.00E+00	2.00E-05	2.00E-03
Vanadium	100	1.00E+00	2.00E-07	2.00E-05

Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
Cadmium	10000	1.00E+00	2.00E-01	2.00E+03
Lead	10000	1.00E+00	2.00E-05	2.00E-01

Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobility/ Persistence
PCBs	10000	1.00E+00	2.00E-07	2.00E-03

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence
Barium	10000	1.00E+00	1.00E+04
Mercury	10000	1.00E+00	1.00E+04

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Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	2.00E+03
Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	1.00E+04
Toxicity/Mobility/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

Level I Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

- N/A and/or data not specified
=====

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

Level II Concentrations

Intake	Distance Along the In-water Segment from the Probable Point of Entry (miles)	Population
--------	--	------------

- N/A and/or data not specified

=====

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

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Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
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- N/A and/or data not specified

Type of Surface Water Body	Total Population	Dilution-Weighted Population
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- N/A and/or data not specified

=====

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

Documentation for Resources:

There are livestock that are pastured along the Mohawk River. It seems likely that commercial livestock obtain water from the river.

Reference: 16, p. 1 of 1; 18, p. 1 of 1

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Universal Waste & Paper - 11/17/95

Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	1.00E-02	5.00E-01	5.00E+01
Mercury	10000	1.00E+00	2.00E-05	5.00E+04	1.00E+04
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02

Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
-----	-----	-----	-----	-----	-----
Trichloroethylene	10	4.00E-01	1.00E-02	5.00E+01	2.00E+00

Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	1.00E-02	5.00E-01	5.00E+01
Cadmium	10000	1.00E+00	2.00E-01	5.00E+03	1.00E+07
Chlordane	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02
DDT	1000	1.00E+00	2.00E-07	5.00E+04	1.00E+01
Lead	10000	1.00E+00	2.00E-05	5.00E+01	1.00E+01

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Barium	10000	1.00E+00	1.00E-02	5.00E-01	5.00E+01
Benz(a)anthracene	1000	1.00E+00	2.00E-09	5.00E+04	1.00E-01
Benzene	100	4.00E-01	1.00E+00	5.00E+03	2.00E+05
Cadmium	10000	1.00E+00	2.00E-01	5.00E+03	1.00E+07
Chromium	10000	1.00E+00	1.00E-02	5.00E+00	5.00E+02
Copper	0	1.00E+00	1.00E-02	5.00E+04	0.00E+00
Indeno(1,2,3-CD)pyrene	0	1.00E+00	2.00E-09	5.00E+04	0.00E+00
Methyl ethyl ketone	10	4.00E-01	1.00E+00	5.00E-01	2.00E+00
Methyl Napthalene, 2-	0	4.00E-01	2.00E-03	5.00E+03	0.00E+00
Nickel	100	1.00E+00	2.00E-05	5.00E-01	1.00E-03
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02
Phenanthrene	0	4.00E-01	2.00E-05	5.00E+01	0.00E+00
Toluene	10	4.00E-01	1.00E-02	5.00E+01	2.00E+00
Xylene, m-	1	4.00E-01	1.00E-02	5.00E+02	2.00E+00

Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
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NOT

Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Cadmium	10000	1.00E+00	2.00E-01	5.00E+03	1.00E+07
Chromium	10000	1.00E+00	1.00E-02	5.00E+00	5.00E+02
Cobalt	1	1.00E+00	1.00E-02	5.00E-01	5.00E-03
Di-n-butyl phthalate	10	1.00E+00	2.00E-03	5.00E+03	1.00E+02
Iron	0	1.00E+00	1.00E-02	5.00E-01	0.00E+00
Nickel	100	1.00E+00	2.00E-05	5.00E-01	1.00E-03
Vanadium	100	1.00E+00	2.00E-07	5.00E-01	1.00E-05

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Universal Waste & Paper - 11/17/95

Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
-----	-----	-----	-----	-----	-----
Cadmium	10000	1.00E+00	2.00E-01	5.00E+03	1.00E+07
Lead	10000	1.00E+00	2.00E-05	5.00E+01	1.00E+01

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Universal Waste & Paper - 11/17/95

Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
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Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio- accum. Value	Toxicity/ Persistence Bioaccum. Value
Barium	10000	1.00E+00	5.00E-01	5.00E+03
Mercury	10000	1.00E+00	5.00E+04	5.00E+08

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SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
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Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	1.00E+07
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	5.00E+08
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	180

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
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- N/A and/or data not specified

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain Population Value
---------	-------------------------------	--------------------------------------

- N/A and/or data not specified

=====

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Fishery	Annual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 MOHAWK RIVER	1.0	River	495	0.0	5.00E-03	1.50E-04

=====

Sum of (Pi*Di): 1.50E-04

Potential Human Food Chain Contamination Factor: 1.50E-05

Documentation for MOHAWK RIVER Fishery:

The Mohawk River is heavily fished for recreational purposes within the target distance limit of the site. According to a survey by the NYSDEC Utica Office 15 years ago, 50,000 to 75,000 people fished the river in Oneida and Herkimer Counties.

However, there is no data on the fishery production. An estimated production of 1 lb/yr. was used. There are no commercial fisheries within the target distance limit.

Reference: 29, p. 1 of 1; 30, p. 1 of 2

Food Chain Individual

Location of Nearest Fishery: MOHAWK RIVER
Distance from the Probable Point of Entry: -0.02 miles
Type of Surface Water Body: River
Dilution Weight: 0.0050000
Level of Contamination: Potential

Food Chain Individual Factor: 0.00

Documentation for MOHAWK RIVER:

An average low-flow discharge rate was calculated from a total of 7 readings from 2 gauging stations along the Mohawk River at Utica.

Average low-flow discharge rate = 495 cu. ft./sec.

= (438+705+491+695+313+374+449)/7

Reference: 22, p. 4 of 4

Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	1.00E-02	5.00E-01	5.00E-03
Mercury	10000	1.00E+00	2.00E-05	5.00E+04	1.00E+04
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02

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Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
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Trichloroethylene	100	4.00E-01	1.00E-02	5.00E+01	2.00E+01

Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	1.00E-02	5.00E-01	5.00E-03
Cadmium	1000	1.00E+00	2.00E-01	5.00E+03	1.00E+06
Chlordane	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02
DDT	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02
Lead	1000	1.00E+00	2.00E-05	5.00E+03	1.00E+02

Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance		Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	1.00E-02	5.00E-01	5.00E-03	
Benz(a)anthracene	10000	1.00E+00	2.00E-09	5.00E+04	1.00E+00	
Benzene	100	4.00E-01	1.00E+00	5.00E+02	2.00E+04	
Cadmium	1000	1.00E+00	2.00E-01	5.00E+03	1.00E+06	
Chromium	10000	1.00E+00	1.00E-02	5.00E+00	5.00E+02	
Copper	100	1.00E+00	1.00E-02	5.00E+04	5.00E+04	
Indeno(1,2,3-CD)pyrene	0	1.00E+00	2.00E-09	5.00E+04	0.00E+00	
Methyl ethyl ketone	1	4.00E-01	1.00E+00	5.00E-01	2.00E-01	
Methyl Napthalene, 2-	1000	4.00E-01	2.00E-03	5.00E+03	4.00E+03	
Nickel	10	1.00E+00	2.00E-05	5.00E+02	1.00E-01	
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02	
Phenanthrene	1000	4.00E-01	2.00E-05	5.00E+03	4.00E+01	
Toluene	100	4.00E-01	1.00E-02	5.00E+01	2.00E+01	
Xylene, m-	100	4.00E-01	1.00E-02	5.00E+02	2.00E+02	

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS

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Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
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Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Cadmium	1000	1.00E+00	2.00E-01	5.00E+03	1.00E+06
Chromium	10000	1.00E+00	1.00E-02	5.00E+00	5.00E+02
Cobalt	0	1.00E+00	1.00E-02	5.00E+03	0.00E+00
Di-n-butyl phthalate	1000	1.00E+00	2.00E-03	5.00E+03	1.00E+04
Iron	10	1.00E+00	1.00E-02	5.00E-01	5.00E-02
Nickel	10	1.00E+00	2.00E-05	5.00E+02	1.00E-01
Vanadium	0	1.00E+00	2.00E-07	5.00E-01	0.00E+00

Source: 7 CLAYTON B-5 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Cadmium	1000	1.00E+00	2.00E-01	5.00E+03	1.00E+06
Lead	1000	1.00E+00	2.00E-05	5.00E+03	1.00E+02

Source: 8 CLAYTON B-4 SUBSURF

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02

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Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco- toxicity Value	Persist. Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Barium	1	1.00E+00	5.00E-01	5.00E-01
Mercury	10000	1.00E+00	5.00E+04	5.00E+08

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Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	1.00E+06
Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	5.00E+08
Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	180

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Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

-
- N/A and/or data not specified

Most Distant Level II Sample

-
- N/A and/or data not specified

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
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- N/A and/or data not specified

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
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- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
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- N/A and/or data not specified

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
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- N/A and/or data not specified

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value
River	16 MOHAWK RIVER	5

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	1 RIVERINE WETLAND	1.75	50
River	2 RIVERINE WETLAND	3.68	100
River	3 RIVERINE WETLAND	7.05	150
River	4 WETLAND	0.02	0
River	5 WETLAND	0.13	25
River	6 WETLAND	0.15	25
River	7 WETLAND	0.01	0
River	8 WETLAND	0.04	0
River	9 WETLAND	0.02	0
River	10 WETLAND	0.07	0
River	11 WETLAND	0.12	25
River	12 WETLAND	0.08	0
River	13 WETLAND	0.05	0
River	14 WETLAND	0.12	25
River	15 WETLAND	0.03	0

Documentation for Sensitive Environment RIVERINE WETLAND:

The Mohawk River is a riverine wetland from the PPE and extends to 1.75 mile from the PPE. Frontage = 1.75 miles.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment RIVERINE WETLAND:

A riverine wetland along the Mohawk River starts at 1.8 miles from the PPE and extends to 5.48 miles from the PPE. Frontage = 3.68 miles.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment RIVERINE WETLAND:

A riverine wetland along the Mohawk River exists 7.95 miles from the PPE and extends to 15.00 miles from the PPE. Frontage = 7.05 miles.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the northside of the river at 0.67 mile from the PPE and extends to 0.69 mile from the PPE. Wetland frontage = 0.02 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the northside of the river at 0.97 mile from the PPE and extends to 1.10 miles from the PPE. Wetland frontage = 0.13 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 1.0 mile from the PPE and extends to 1.15 mile from the PPE.
Wetland frontage = 0.15 mile

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 1.19 miles from the PPE and extends to 1.20 miles from the PPE.
Wetland frontage = 0.01 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 2.19 miles from the PPE and extends to 2.23 miles from the PPE.
Wetland frontage = 0.04 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 2.90 miles from the PPE and extends to 2.92 miles from the PPE.
Wetland frontage = 0.02 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 2.93 miles from the PPE and extends to 3.0 miles from the PPE.
Wetland frontage = 0.07 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 6.38 miles from the PPE and extends to 6.5 miles from the PPE.
Wetland frontage = 0.12 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 10.28 miles from the PPE and extends to 10.36 miles from the PPE.
Wetland frontage = 0.08 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 11.45 miles from the PPE and extends to 11.50 miles from the PPE.
Wetland frontage = 0.05 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the south side of the river at 13.06 miles from the PPE and extends to 13.18 miles from the PPE.
Wetland frontage = 0.12 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment WETLAND:

A wetland is located on the north side of the river at 13.57 miles from the PPE and extends to 13.6 miles from the PPE.
Wetland frontage = 0.03 mile.

Reference: 21, p. 1 of 1; 26, p. 1 of 3

Documentation for Sensitive Environment MOHAWK RIVER:

The Mohawk River is designated as a Class C and Class B stream in the surface water pathway.

Class C streams are protected for fish life and fish propagation.

HRS Table 4-23 used to determine sensitive environment value.

State designated areas for the protection of aquatic life = 5.

Reference: 1, p. 1 of 1; 24, pp. 2 and 3 of 6; 25, p. 1 of 1

Type of Surface	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj (Wj+Sj)
Water Body				
Moderate to Large Stream	5	350	5.00E-03	1.78E+00

Sum of Dj (Wj+Sj): 1.78E+00
 Sum of Dj (Wj+Sj)/10: 1.78E-01

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Potential Contamination Sensitive Environment Factor: 1.77E-01

Likelihood of Exposure

No.	Source ID	Level of Contamination
1	CLAYTON PCB SOILS	Level I
2	CLAYTON TCE SOILS	Level II
3	EBASCO UW-SS04	Level II
4	EBASCO UW-SS02	Level I
6	EBASCO UW-SS03	Level II

Likelihood of Exposure Factor: 550

Documentation for Area of Contamination, Source CLAYTON PCB SOILS:

Area of contamination is the area between all soil sampling locations that detected PCBs at concentrations greater than three times background levels. Therefore, area of contamination is the area defined by S-1, S-2, S-3, S-9, S-6, S-7, S-8, and S-1.

Area estimated to be 1400 ft. by 300 ft. = 420,000 ft.

Reference: 5, p. 11 of 98

Documentation for Area of Contamination, Source CLAYTON TCE SOILS:

Area of contamination is the area between all soil sampling locations that detected TCE at concentrations greater than three times background levels. Therefore, the area of contamination is the area defined by S-5, S-6, S-7, S-8, and S-5.

Area estimated to be 900 ft. by 300 ft. = 270,000 ft.

Reference: 5, p. 11 of 98

Documentation for Area of Contamination, Source EBASCO UW-SS04:

Area of contamination is unknown. Area of contamination estimated to be 1 sq. ft.

Reference: 32, p. 6 of 7

Documentation for Area of Contamination, Source EBASCO UW-SS02:

Although Ebasco observed an area of stained soil approximately 600 ft. by 200 ft. during the 1992 site inspection, only one soil sample was collected. Therefore the extent of contamination is unknown. An estimated area of 1 sq. ft. was used.

Reference: 11, p. 2 of 25

Documentation for Area of Contamination, Source LANDFILL:

The extent of the landfill is not known. An estimated area of 1 sq. ft. was used.

Reference:

Documentation for Area of Contamination, Source EBASCO UW-SS03:

Although Ebasco noted an area of stained soil surrounding the location of UW-SS03, the area of contamination is unknown. The area of contamination was estimated to be 1 sq. ft.

Reference: Figure 2; 4, p. 5 of 37

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Documentation for Area of Contamination, Source CLAYTON B-5 SUBSURF:

Contaminated soil area is unknown, estimated to be 1 sq. ft.

Reference:

Documentation for Area of Contamination, Source CLAYTON B-4 SUBSURF:

Contaminated soil area is unknown, estimated to be 1 sq. ft.

Reference:

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	PCBs	< 2	3.6E+04	7.6E-02	0.0E+00	ppm
2	Trichloroethylene	< 2	6.5E+00	5.3E+01	0.0E+00	ppm
3	Barium	< 2	4.2E+02	0.0E+00	4.1E+04	ppm
3	Cadmium	< 2	3.9E+00	0.0E+00	2.9E+02	ppm
3	Chlordane	< 2	1.6E-02	4.5E-01	3.5E+01	ppm
3	DDT	< 2	2.3E-02	1.7E+00	2.9E+02	ppm
3	Lead	< 2	1.5E+03	0.0E+00	0.0E+00	ppm
4	Barium	< 2	1.7E+02	0.0E+00	4.1E+04	ppm
4	Benz(a)anthracene	< 2	7.3E-01	0.0E+00	0.0E+00	ppm
4	Benzene	< 2	7.2E-02	2.0E+01	0.0E+00	ppm
4	Cadmium	< 2	6.0E+00	0.0E+00	2.9E+02	ppm
4	Chromium	< 2	6.8E+01	0.0E+00	2.9E+03	ppm
4	Copper	< 2	1.9E+02	0.0E+00	0.0E+00	ppm
4	Indeno(1,2,3-CD)pyrene	< 2	4.5E-01	0.0E+00	0.0E+00	ppm
4	Methyl ethyl ketone	< 2	9.1E-02	0.0E+00	3.5E+05	ppm
4	Methyl Napthalene, 2-	< 2	5.6E-01	0.0E+00	0.0E+00	ppm
4	Nickel	< 2	1.6E+02	0.0E+00	1.2E+04	ppm
4	PCBs	< 2	4.2E+00	7.6E-02	0.0E+00	ppm
4	Phenanthrene	< 2	9.2E-01	0.0E+00	0.0E+00	ppm
4	Toluene	< 2	1.5E-01	0.0E+00	1.2E+05	ppm
4	Xylene, m-	< 2	1.9E-01	0.0E+00	1.2E+06	ppm
6	Cadmium	< 2	3.4E+00	0.0E+00	2.9E+02	ppm
6	Chromium	< 2	6.4E+01	0.0E+00	2.9E+03	ppm
6	Cobalt	< 2	2.2E+01	0.0E+00	0.0E+00	ppm
6	Di-n-butyl phthalate	< 2	2.7E+00	0.0E+00	5.8E+04	ppm
6	Iron	< 2	6.7E+04	0.0E+00	0.0E+00	ppm
6	Nickel	< 2	1.2E+02	0.0E+00	1.2E+04	ppm
6	Vanadium	< 2	8.8E+01	0.0E+00	4.1E+03	ppm

Documentation for Source CLAYTON PCB SOILS, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton in September 1983.

PCBs were detected at location S-1, S-2, S-3, S-6, S-7, S-8, and S-9 at concentrations ranging from 1.1 to 36,000 ppm, which are greater than three times background levels. The highest concentration was used to define the contaminated area.

Location No. 4 was chosen as the background location. PCBs were not detected in the background sample.

Reference: 5, pp. 11, 12, and 39-48 of 98

Documentation for Source CLAYTON TCE SOILS, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton in September 1983.

S-5, S-6, S-7, and S-8 were found to be contaminated with TCE at concentrations ranging from 66.9 to 6480 ppb, which are greater than three times background levels. The highest concentration was used to define the contaminated area.

S-4 was designated as background because it contained the lowest concentrations of organic constituents. TCE was not detected in S-4.

Reference: 5, pp. 11, 12 and 39-48 of 98

Documentation for Source EBASCO UW-SS04, Contaminants:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Barium (425 ppm), cadmium (3.9J ppm), lead (1520 ppm), DDT (23J ppb), and alpha chlordane (16PJ ppb) were found in UW-SS04 at concentrations greater than three times background levels.

UW-SS01 was designated as the background soil sample because of

its offsite, upgradient location. Concentrations in the background sample are as follows: 49.9 ppm barium, 0.6J ppm cadmium, 232WJ ppm lead, 4.2UJ ppb DDT, and 2.2UJ alpha chlordane.

Ref. 10, pp. 89, 95, 97, 120, 121, 129-133, 146, 149, 150, 206, 209, and 210 of 212.

Reference: 4, pp. 27-32 of 37

Documentation for Source EBASCO UW-SS02, Contaminants:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Barium (169 ppm), cadmium (6 ppm), chromium (68.3 ppm), copper (191), nickel (160J ppm), 2-butanone (91 ppb), benzene (72 ppb), toluene (150 ppb), total xylene (190 ppb), 2-methyl naphthalene (560J ppb), phenanthrene (920J ppb), benzo(a)anthracene (730J ppb), indeno(1,2,3-cd)pyrene (450 ppb), and PCBs (4200J ppb) were detected in UW-SS02 at concentrations greater than three times background levels.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background sample are as follows: 49.9 ppm barium, 0.6J ppm cadmium, 13.3 ppm chromium, 53NJ ppm copper, 24.7J ppm nickel, undetectable 2-butanone, 13UJ ppb benzene, 13UJ ppb toluene, 13UJ ppb xylene, 420UJ ppb 2-methyl naphthalene, 250J phenanthrene, 230J ppb benzo(a)anthracene, 120J ppb indeno(1,2,3-cd)pyrene, and 160J ppb PCBs.

Ref. 10, pp. 89, 91, 120, 121, 123, 124, 146, 147, 206, and 207 of 212

Reference: 4, pp. 27-32 of 37

Documentation for Source LANDFILL, Contaminants:

There are no known contaminants associated with the landfill source. No sampling has been done to confirm the presence/absence of contaminants that are attributed to the landfill source.

Reference:

Documentation for Source EBASCO UW-SS03, Contaminants:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Cadmium (3.4 J), chromium (63.6 ppm), cobalt (21.7 ppm), iron (67,300* ppm), nickel (118J ppm), vanadium (88.1J ppm), di-n-butyl phthalate (2,700J ppb), and PCBs (56,000*J ppb) were found in UW-SS03 at concentrations greater than three times background levels. Since UW-SS03 coincides with Clayton's S-1, PCB contamination in this area has been accounted for in the PCB contaminated soil source.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background soil sample are as follows: 0.60J ppm cadmium; 13.3 ppm chromium, 6.0 ppm cobalt, 14,800* ppm iron, 24.7J ppm nickel, 15.9J ppm vanadium, 420UJ ppb di-n-butyl phthalate, and 160J ppb PCBs.

Ref. 10, pp. 89, 93, 120, 121, 126, 127, 146, 148, 206, and 208 of 212

Reference: 4, pp. 27-32 of 37; 5, pp. 11 & 12 of 98

Documentation for Source CLAYTON B-5 SUBSURF, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton on September 27, 1983.

Cadmium (0.04 ppm) and lead (0.5 ppm) were detected in the 10-12 ft. interval at location B-5 at concentrations greater than three times background levels.

B-1 was designated as the background subsurface soil location because of its offsite, upgradient location. Cadmium concentrations

at the background location were 0.0025 and 0.010 ppm. Lead concentrations at B-1 were 0.010 and 0.043 ppm.

Reference: 5, pp. 25, 26, and 73 of 98

Documentation for Source CLAYTON B-4 SUBSURF, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton on September 22, 1983.

PCB (1.8 ppm) was found at B-4 in the 10-12 ft. interval at concentrations greater than three times background levels.

B-1 was designated as the background sample because of its offsite, upgradient location. Concentrations of PCB in B-1 were less than 1 ppm.

Reference: 5, pp. 25, 26, and 73 of 98

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Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Value
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PCBs	10000
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Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value
------------------------	-------------------

Trichloroethylene	10
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Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Barium	10000
Cadmium	10000
Chlordane	10000
DDT	1000
Lead	10000

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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
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Barium	10000
Benz(a)anthracene	1000
Benzene	100
Cadmium	10000
Chromium	10000
Copper	0
Indeno(1,2,3-CD)pyrene	0
Methyl ethyl ketone	10
Methyl Napthalene, 2-	0
Nickel	100
PCBs	10000
Phenanthrene	0
Toluene	10
Xylene, m-	1

Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
------------------------	-------------------

Cadmium	10000
Chromium	10000
Cobalt	1
Di-n-butyl phthalate	10
Iron	0
Nickel	100
Vanadium	100

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

Targets

Level I Population: 0.0 Value: 0.00

Documentation for Level I Population:

There are no residences, schools or day care centers observed within 200 ft. of the site.

Reference: 3, p. 7 of 7

Level II Population: 0.0 Value: 0.00

Documentation for Level II Population:

There are no residences, schools, or day care centers within 200 ft. of the site.

Reference: 3, p. 7 of 7

Workers: 40.0 Value: 5.00

Documentation for Workers:

There are a maximum of 40 workers on the site.

Reference: 3, p. 2 of 7

Resident Individual: Potentia Value: 0.00

Resources: NO Value: 0.00

Documentation for Resources:

There is no commercial agriculture, silviculture, or livestock grazing on the site. The site is an active scrap metal yard.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Terrestrial Sensitive Environment	Value
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- N/A and/or data not specified	

=====	
Terrestrial Sensitive Environments Factor:	0.00

Documentation for Terrestrial Environment :

Based on HRS Table 5-5 and data from the NYSDEC Wildlife Resources Center and USFWS, there are no terrestrial sensitive environments on the site.

Reference: 1, p. 1 of 1; 27, p. 1 of 4; 28, p. 2 of 5

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/Accessibility	Area of Contam. (sq. feet)
1	CLAYTON PCB SOILS	Level I	10	420000
2	CLAYTON TCE SOILS	Level II	10	270000
3	EBASCO UW-SS04	Level II	10	1
4	EBASCO UW-SS02	Level I	10	1
6	EBASCO UW-SS03	Level II	10	1

Highest Attractiveness/Accessibility Value: 10
Sum of Eligible Areas Of Contamination (sq. feet): 690003
Area of Contamination Value: 100

Likelihood of Exposure Factor Category: 125

Documentation for Attractiveness/Accessibility, Source CLAYTON PCB SOILS:

The site is fenced on the north, west, and south sides of the property. Access to the site is controlled by a gate at the entrance. Security guards patrol the site in off-hours of operation. Site is accessible to the public from the remote east side, but presence of security guard deters trespassing. However, evidence of nonauthorized use by the public was noted.

Therefore, contaminated areas were determined to be accessible with no public recreational use.

Reference: Figure 2; 3, pp. 2 and 5 of 7

Documentation for Attractiveness/Accessibility, Source CLAYTON TCE SOILS:

The site is fenced on the north, west, and south sides of the property. Access to the site is controlled by a gate at the entrance. Security guards patrol the site in off-hours of operation. Site is accessible to the public through the remote east side, but presence of security guard deters trespassing. However, evidence of nonauthorized use by the public was noted.

Therefore, contaminated areas were determined to be accessible with no public recreational use.

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Reference: Figure 2; 3, pp. 2 and 5 of 7

Documentation for Attractiveness/Accessibility, Source EBASCO UW-SS04:

The site is fenced on the north, west, and south sides of the property. Access to the site is controlled by a gate at the entrance. Security guards patrol the site in off-hours of operation. Site is accessible to the public through the remote east side, but the presence of security guard deters trespassing. However, evidence of nonauthorized use by the public was noted.

Therefore, contaminated areas were determined to be accessible with no public recreational use.

Reference: Figure 2; 3, pp. 2 and 5 of 7

Documentation for Attractiveness/Accessibility, Source EBASCO UW-SS02:

The site is fenced on the north, west, and south sides of the property. Access to the site is controlled by a gate at the entrance. Security guards patrol the site in off-hours of operation. Site is accessible to the public through the remote east side, but presence of security guard deters trespassing. However, evidence of unauthorized use by the public was noted.

Therefore, contaminated areas were determined to be accessible with no public recreational use.

Reference: Figure 2; 3, pp. 2 and 5 of 7

Documentation for Attractiveness/Accessibility, Source LANDFILL:

The site is fenced on the north, west, and south sides of the property. Access to the site is controlled by a gate at the entrance. Security guards patrol the site in off-hours of operation. Site is accessible to the public through the remote east side of the site, but presence of security guard deters

trespassing. However, evidence of unauthorized use by the public was noted.

Therefore, contaminated areas were determined to be accessible with no public recreational use.

Reference: Figure 2; 3, pp. 2 and 5 of 7

Documentation for Attractiveness/Accessibility, Source EBASCO UW-SS03:

The site is fenced on the north, west, and south sides of the property. Access to the site is controlled by a gate at the entrance. Security guards patrol the site in off-hours of operation. Site is accessible to the public through the remote east side, but presence of security guard deters trespassing. However, evidence of unauthorized use by the public was noted.

Therefore, contaminated areas were determined to be accessible with no public recreational use.

Reference: Figure 2; 3, pp. 2 and 5 of 7

Documentation for Attractiveness/Accessibility, Source CLAYTON B-5 SUBSURF:

Contaminated soil is located at a depth of 10 to 12 feet and is physically inaccessible to the public.

Reference: 5, pp. 25 and 26 of 98

Documentation for Attractiveness/Accessibility, Source CLAYTON B-4 SUBSURF:

Contaminated soil is located at a depth of 10-12 ft. and is physically inaccessible to the public.

Reference: 5, pp. 25 and 26 of 98

Source No.	Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	PCBs	< 2	3.6E+04	7.6E-02	0.0E+00	ppm
2	Trichloroethylene	< 2	6.5E+00	5.3E+01	0.0E+00	ppm
3	Barium	< 2	4.2E+02	0.0E+00	4.1E+04	ppm
3	Cadmium	< 2	3.9E+00	0.0E+00	2.9E+02	ppm
3	Chlordane	< 2	1.6E-02	4.5E-01	3.5E+01	ppm
3	DDT	< 2	2.3E-02	1.7E+00	2.9E+02	ppm
3	Lead	< 2	1.5E+03	0.0E+00	0.0E+00	ppm
4	Barium	< 2	1.7E+02	0.0E+00	4.1E+04	ppm
4	Benz(a)anthracene	< 2	7.3E-01	0.0E+00	0.0E+00	ppm
4	Benzene	< 2	7.2E-02	2.0E+01	0.0E+00	ppm
4	Cadmium	< 2	6.0E+00	0.0E+00	2.9E+02	ppm
4	Chromium	< 2	6.8E+01	0.0E+00	2.9E+03	ppm
4	Copper	< 2	1.9E+02	0.0E+00	0.0E+00	ppm
4	Indeno(1,2,3-CD)pyrene	< 2	4.5E-01	0.0E+00	0.0E+00	ppm
4	Methyl ethyl ketone	< 2	9.1E-02	0.0E+00	3.5E+05	ppm
4	Methyl Napthalene, 2-	< 2	5.6E-01	0.0E+00	0.0E+00	ppm
4	Nickel	< 2	1.6E+02	0.0E+00	1.2E+04	ppm
4	PCBs	< 2	4.2E+00	7.6E-02	0.0E+00	ppm
4	Phenanthrene	< 2	9.2E-01	0.0E+00	0.0E+00	ppm
4	Toluene	< 2	1.5E-01	0.0E+00	1.2E+05	ppm
4	Xylene, m-	< 2	1.9E-01	0.0E+00	1.2E+06	ppm
6	Cadmium	< 2	3.4E+00	0.0E+00	2.9E+02	ppm
6	Chromium	< 2	6.4E+01	0.0E+00	2.9E+03	ppm
6	Cobalt	< 2	2.2E+01	0.0E+00	0.0E+00	ppm
6	Di-n-butyl phthalate	< 2	2.7E+00	0.0E+00	5.8E+04	ppm
6	Iron	< 2	6.7E+04	0.0E+00	0.0E+00	ppm
6	Nickel	< 2	1.2E+02	0.0E+00	1.2E+04	ppm
6	Vanadium	< 2	8.8E+01	0.0E+00	4.1E+03	ppm

Documentation for Source CLAYTON PCB SOILS, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton in September 1983.

PCBs were detected at location S-1, S-2, S-3, S-6, S-7, S-8, and S-9 at concentrations ranging from 1.1 to 36,000 ppm, which are greater than three times background levels. The highest concentration was used to define the contaminated area.

Location No. 4 was chosen as the background location. PCBs were not detected in the background sample.

Reference: 5, pp. 11, 12, and 39-48 of 98

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Documentation for Source CLAYTON TCE SOILS, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton in September 1983.

S-5, S-6, S-7, and S-8 were found to be contaminated with TCE at concentrations ranging from 66.9 to 6480 ppb, which are greater than three times background levels. The highest concentration was used to define the contaminated area.

S-4 was designated as background because it contained the lowest concentrations of organic constituents. TCE was not detected in S-4.

Reference: 5, pp. 11, 12 and 39-48 of 98

Documentation for Source EBASCO UW-SS04, Contaminants:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Barium (425 ppm), cadmium (3.9J ppm), lead (1520 ppm), DDT (23J ppb), and alpha chlordane (16PJ ppb) were found in UW-SS04 at concentrations greater than three times background levels.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background sample are as follows: 49.9 ppm barium, 0.6J ppm cadmium, 232WJ ppm lead, 4.2UJ ppb DDT, and 2.2UJ alpha chlordane.

Ref. 10, pp. 89, 95, 97, 120, 121, 129-133, 146, 149, 150, 206, 209, and 210 of 212.

Reference: 4, pp. 27-32 of 37

Documentation for Source EBASCO UW-SS02, Contaminants:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Barium (169 ppm), cadmium (6 ppm), chromium (68.3 ppm), copper (191), nickel (160J ppm), 2-butanone (91 ppb), benzene (72 ppb), toluene (150 ppb), total xylene (190 ppb), 2-methyl naphthalene (560J ppb), phenanthrene (920J ppb), benzo(a)anthracene (730J ppb),

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indeno(1,2,3-cd)pyrene (450 ppb), and PCBs (4200J ppb) were detected in UW-SS02 at concentrations greater than three times background levels.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background sample are as follows: 49.9 ppm barium, 0.6J ppm cadmium, 13.3 ppm chromium, 53NJ ppm copper, 24.7J ppm nickel, undetectable 2-butanone, 13UJ ppb benzene, 13UJ ppb toluene, 13UJ ppb xylene, 420UJ ppb 2-methyl naphthalene, 250J phenanthrene, 230J ppb benzo(a)anthracene, 120J ppb indeno(1,2,3-cd)pyrene, and 160J ppb PCBs.

Ref. 10, pp. 89, 91, 120, 121, 123, 124, 146, 147, 206, and 207 of 212

Reference: 4, pp. 27-32 of 37

Documentation for Source LANDFILL, Contaminants:

There are no known contaminants associated with the landfill source. No sampling has been done to confirm the presence/absence of contaminants that are attributed to the landfill source.

Reference:

Documentation for Source EBASCO UW-SS03, Contaminants:

Based on validated analytical results from sampling performed by Ebasco on March 9, 1992.

Cadmium (3.4 J), chromium (63.6 ppm), cobalt (21.7 ppm), iron (67,300* ppm), nickel (118J ppm), vanadium (88.1J ppm), di-n-butyl phthalate (2,700J ppb), and PCBs (56,000*J ppb) were found in UW-SS03 at concentrations greater than three times background levels. Since UW-SS03 coincides with Clayton's S-1, PCB contamination in this area has been accounted for in the PCB contaminated soil source.

UW-SS01 was designated as the background soil sample because of its offsite, upgradient location. Concentrations in the background soil sample are as follows: 0.60J ppm cadmium; 13.3 ppm chromium,

6.0 ppm cobalt, 14,800* ppm iron, 24.7J ppm nickel, 15.9J ppm vanadium, 420UJ ppb di-n-butyl phthalate, and 160J ppb PCBs.

Ref. 10, pp. 89, 93, 120, 121, 126, 127, 146, 148, 206, and 208 of 212

Reference: 4, pp. 27-32 of 37; 5, pp. 11 & 12 of 98

Documentation for Source CLAYTON B-5 SUBSURF, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton on September 27, 1983.

Cadmium (0.04 ppm) and lead (0.5 ppm) were detected in the 10-12 ft. interval at location B-5 at concentrations greater than three times background levels.

B-1 was designated as the background subsurface soil location because of its offsite, upgradient location. Cadmium concentrations at the background location were 0.0025 and 0.010 ppm. Lead concentrations at B-1 were 0.010 and 0.043 ppm.

Reference: 5, pp. 25, 26, and 73 of 98

Documentation for Source CLAYTON B-4 SUBSURF, Contaminants:

Based on unvalidated analytical results from sampling performed by Clayton on September 22, 1983.

PCB (1.8 ppm) was found at B-4 in the 10-12 ft. interval at concentrations greater than three times background levels.

B-1 was designated as the background sample because of its offsite, upgradient location. Concentrations of PCB in B-1 were less than 1 ppm.

Reference: 5, pp. 25, 26, and 73 of 98

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Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous
Substance

Toxicity
Value

PCBs

10000

07/25/94
NOT
TOTAL

Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value
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Trichloroethylene	10
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Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Barium	10000
Cadmium	10000
Chlordane	10000
DDT	1000
Lead	10000

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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
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Barium	10000
Benz(a)anthracene	1000
Benzene	100
Cadmium	10000
Chromium	10000
Copper	0
Indeno(1,2,3-CD)pyrene	0
Methyl ethyl ketone	10
Methyl Napthalene, 2-	0
Nickel	100
PCBs	10000
Phenanthrene	0
Toluene	10
Xylene, m-	1

Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
Cadmium	10000
Chromium	10000
Cobalt	1
Di-n-butyl phthalate	10
Iron	0
Nickel	100
Vanadium	100

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

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Nearby Individual

Population within 1/4 mile: 845.0

Nearby Individual Value: 1.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile	845.0	1.3
> 1/4 to 1/2 mile	2540.0	2.0
> 1/2 to 1 mile	10159.0	10.2

Population Within 1 Mile Factor: 14.0

Documentation for Population > 0 to 1/4 mile Distance Category:

Based on population calculations by Ebasco Services Inc. from
7-15-92.

Population within 0 to 0.25 mile = 845.

Reference: 13, p. 1 of 23

Documentation for Population > 1/4 to 1/2 mile Distance Category:

Based on population calculations by Ebasco Services dated
7-15-92.

Population within 0.25 to 0.5 mile = 2540.

Reference: 13, p. 1 of 23

Documentation for Population > 1/2 to 1 mile Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 0.5 to 1 mile = 10159.

Reference: 13, p. 1 of 23

OBSERVED RELEASE

No. Sample ID	Distance (miles)	Level of Contamination
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- N/A and/or data not specified

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Observed Release Factor:	0
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Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potential to Rel. Value A(B+C)
CLAYTON PCB SOILS	Contaminated Soil	10	19	11	30	300
CLAYTON TCE SOILS	Contaminated Soil	10	19	17	36	360
EBASCO UW-SS04	Contaminated Soil	10	0	6	6	60
EBASCO UW-SS02	Contaminated Soil	10	0	17	17	170
EBASCO UW-SS03	Contaminated Soil	10	0	6	6	60

Gas Potential to Release Factor: 360

Documentation for Gas Containment, Source CLAYTON PCB SOILS:

Based on HRS Table 6-3.

All situations except those specifically listed below = 10.
Source has no gas collection/treatment system, no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not within a building, and is not in sealed containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Source Type, Source CLAYTON PCB SOILS:

Based on analytical results from Clayton 1984, several soil samples were found to contain PCBs at concentrations greater than three times background levels.

Reference: 5, pp. 11 and 12 of 98

Documentation for Secondary Source Type, CLAYTON PCB SOILS:

No secondary sources were observed to be associated with PCB contaminated soil.

Reference: 5, pp. 2-4 of 98

Documentation for Gas Containment, Source CLAYTON TCE SOILS:

Based on HRS Table 6-3.

All situations except those specifically listed below = 10.

Source has no gas collection/treatment system, no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not within a building, and is not in sealed containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Source Type, Source CLAYTON TCE SOILS:

Based on analytical results from Clayton 1984, several soil samples were found to contain concentrations of trichloroethylene (TCE) at concentrations greater than three times background levels.

Reference: 5, pp. 11 and 12 of 98

Documentation for Secondary Source Type, CLAYTON TCE SOILS:

No secondary sources were observed to be associated with TCE-contaminated soil.

Reference: 5, pp. 2-4 of 98

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Documentation for Gas Containment, Source EBASCO UW-SS04:

Based on HRS Table 6-3.

All situations except those specifically listed below = 10.

Source has no gas collection/treatment system, no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not within a building, and is not in sealed containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Source Type, Source EBASCO UW-SS04:

Based on analytical results from Ebasco 1992, soil sample UW-SS04 was found to contain several inorganic and organic contaminants at concentrations greater than three times background levels.

Ref. 10, pp. 95, 97, 129-133, 149, 150, 209, and 210 of 212

Reference: 4, pp. 27-32 of 37

Documentation for Secondary Source Type, EBASCO UW-SS04:

There are no secondary sources associated with UW-SS04.

Reference: 32, p. 6 of 7

Documentation for Gas Containment, Source EBASCO UW-SS02:

Based on HRS Table 6-3.

All situations except those specifically listed below = 10.

Source has no gas collection/treatment system, no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not within a building, and is not in sealed containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Source Type, Source EBASCO UW-SS02:

Based on analytical results from Ebasco 1992, soil sample, UW-SS02, was found to contain several inorganic and organic contaminants at concentrations greater than three times background levels.

Ref. 10, pp. 91, 123, 124, 147, and 207 of 212

Reference: 4, pp. 5 and 28-32 of 37

Documentation for Secondary Source Type, EBASCO UW-SS02:

No secondary sources were observed in association with this sampling location.

Reference: 32, pp. 4 and 7 of 7

Documentation for Gas Containment, Source LANDFILL:

Based on HRS Table 6-3.

All situations except those specifically listed below = 10.

Source has no gas collection/treatment system, no engineered windbreak, no maintained cover, no uncontaminated soil cover, is

not within a building, and is not in sealed containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Source Type, Source LANDFILL:

According to the Oneida County Department of Environmental Health, the Universal Waste site was previously the old Utica Landfill. Evidence of old refuse was seen on northern portions of the site during the ARCS II site inspection, where recent clearing had been done.

Reference: 3, p. 3 of 7; 6, p. 1 of 1

Documentation for Secondary Source Type, LANDFILL:

No secondary sources were associated with the former landfill.

Reference: 3, p. 3 of 7

Documentation for Gas Containment, Source EBASCO UW-SS03:

Based on HRS Table 6-3.

All situations except those specifically listed below = 10.
Source has no gas collection/treatment system, no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not within a building, and is not in sealed containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

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AIR PATHWAY LIKELIHOOD OF RELEASE

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Documentation for Source Type, Source EBASCO UW-SS03:

Based on analytical results from Ebasco 1992, soil sample UW-SS03 was found to contain several inorganics and organic contaminants at concentrations greater than three times background levels.

Reference: 4, pp. 27-32 of 37; 10, pp. 93, 126, 127, 148, & 208 of 212

Documentation for Secondary Source Type, EBASCO UW-SS03:

No secondary sources were observed to be associated with UW-SS03.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Gas Containment, Source CLAYTON B-5 SUBSURF:

Based on HRS Table 6-3.

Source has uncontaminated soil cover greater than 3 ft. thick and is substantially vegetated with little exposed soil.

Reference: 1, p. 1 of 1; 3, p. 3 of 7; 5, pp. 25 and 26 of 98

Documentation for Source Type, Source CLAYTON B-5 SUBSURF:

Based on unvalidated analytical results from Clayton 1984, subsurface soil at location B-5 was found to be contaminated with two inorganics at concentrations greater than three times background levels within the 10 to 12 ft. interval.

Reference: 5, pp. 25 and 26 of 98

Documentation for Secondary Source Type, CLAYTON B-5 SUBSURF:

No secondary sources were found to be associated with this source.

Reference: 5, pp. 22 and 23 of 98

Documentation for Gas Containment, Source CLAYTON B-4 SUBSURF:

Based on HRS Table 6-3.

Source covered by greater than 3 ft. of uncontaminated soil and is substantially vegetated with little exposed soil.

Reference: 1, p. 1 of 1; 3, p. 3 of 7; 5, p. 26 of 98

Documentation for Source Type, Source CLAYTON B-4 SUBSURF:

Based on unvalidated analytical results from Clayton 1984, subsurface soil sample B-4 was found to contain PCBs at concentrations greater than three times background levels in the 10 to 12 ft. interval.

Reference: 5, pp. 25 and 26 of 98

Documentation for Secondary Source Type, CLAYTON B-4 SUBSURF:

No secondary sources were found to be associated with this source.

Reference: 5, pp. 22 and 23 of 98

Source: CLAYTON PCB SOILS

Gaseous Hazardous Substance

Hazardous Substance Gas
Migration Potential Value

PCBs

11

Average of Gas Migration Potential Value for 3 Hazardous Substances: 11.000
=====

Gas Migration Potential Value From Table 6-7: 11

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Source: CLAYTON TCE SOILS

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Trichloroethylene	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000
=====

Gas Migration Potential Value From Table 6-7: 17

AIR PATHWAY LIKELIHOOD OF RELEASE

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Source: EBASCO UW-SS04

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Chlordane	6
DDT	6

Average of Gas Migration Potential Value for 3 Hazardous Substances: 6.000

Gas Migration Potential Value From Table 6-7: 6

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Source: EBASCO UW-SS02

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Benz(a)anthracene	6
Benzene	17
Methyl ethyl ketone	17
Methyl Napthalene, 2-	11
PCBs	11
Phenanthrene	11
Toluene	17
Xylene, m-	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000
=====

Gas Migration Potential Value From Table 6-7: 17

Source: LANDFILL

Gaseous Hazardous Substance

Hazardous Substance Gas
Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000
=====

Gas Migration Potential Value From Table 6-7: 0

Source: EBASCO UW-SS03

Gaseous Hazardous Substance

Hazardous Substance Gas
Migration Potential Value

Di-n-butyl phthalate

6

Average of Gas Migration Potential Value for 3 Hazardous Substances: 6.000
=====

Gas Migration Potential Value From Table 6-7:

6

Source: CLAYTON B-5 SUBSURF

Gaseous Hazardous Substance

Hazardous Substance Gas
Migration Potential Value

Average of Gas Migration Potential Value for 3 Hazardous Substances: 0.000
=====

Gas Migration Potential Value From Table 6-7: 0

Source: CLAYTON B-4 SUBSURF

Gaseous Hazardous Substance

Hazardous Substance Gas
Migration Potential Value

PCBs

11

Average of Gas Migration Potential Value for 3 Hazardous Substances: 11.000
=====

Gas Migration Potential Value From Table 6-7: 11

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
CLAYTON PCB SOILS	Contaminated Soil	10	22	6	28	280
EBASCO UW-SS04	Contaminated Soil	10	0	6	6	60
EBASCO UW-SS02	Contaminated Soil	10	0	6	6	60
EBASCO UW-SS03	Contaminated Soil	10	0	6	6	60

Particulate Potential to Release Factor: 280

Documentation for Particulate Containment, Source CLAYTON PCB SOILS:

Based on HRS Table 6-9.

All situations except those specifically listed below = 10.
Source has no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not covered by liquids, is not enclosed in a building, and is not in intact containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Source Type, Source CLAYTON PCB SOILS:

Based on analytical results from Clayton 1984, several soil samples were found to contain PCBs at concentrations greater than three times background levels.

Reference: 5, pp. 11 and 12 of 98

Documentation for Secondary Source Type, CLAYTON PCB SOILS:

No secondary sources were observed to be associated with PCB contaminated soil.

Reference: 5, pp. 2-4 of 98

Documentation for Particulate Containment, Source CLAYTON TCE SOILS:

Based on HRS Table 6-9.

All situations except those specifically listed below = 10.
Source has no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not covered by liquids, is not enclosed in a building, and is not in intact containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Source Type, Source CLAYTON TCE SOILS:

Based on analytical results from Clayton 1984, several soil samples were found to contain concentrations of trichloroethylene (TCE) at concentrations greater than three times background levels.

Reference: 5, pp. 11 and 12 of 98

Documentation for Secondary Source Type, CLAYTON TCE SOILS:

No secondary sources were observed to be associated with TCE-contaminated soil.

Reference: 5, pp. 2-4 of 98

Documentation for Particulate Containment, Source EBASCO UW-SS04:

Based on HRS Table 6-9.

All situations except those specifically listed below = 10.
Source has no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not covered by liquids, is not enclosed in a building, and is not in intact containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Source Type, Source EBASCO UW-SS04:

Based on analytical results from Ebasco 1992, soil sample UW-SS04 was found to contain several inorganic and organic contaminants at concentrations greater than three times background levels.

Ref. 10, pp. 95, 97, 129-133, 149, 150, 209, and 210 of 212

Reference: 4, pp. 27-32 of 37

Documentation for Secondary Source Type, EBASCO UW-SS04:

There are no secondary sources associated with UW-SS04.

Reference: 32, p. 6 of 7

Documentation for Particulate Containment, Source EBASCO UW-SS02:

Based on HRS Table 6-9.

All situations except those specifically listed below = 10.
Source has no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not covered by liquids, is not enclosed in a building, and is not in intact containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Source Type, Source EBASCO UW-SS02:

Based on analytical results from Ebasco 1992, soil sample, UW-SS02, was found to contain several inorganic and organic contaminants at concentrations greater than three times background levels.

Ref. 10, pp. 91, 123, 124, 147, and 207 of 212

Reference: 4, pp. 5 and 28-32 of 37

Documentation for Secondary Source Type, EBASCO UW-SS02:

No secondary sources were observed in association with this sampling location.

Reference: 32, pp. 4 and 7 of 7

Documentation for Particulate Containment, Source LANDFILL:

Based on HRS Table 6-9.

All situations except those specifically listed below = 10.
Source has no engineered windbreak, no maintained cover, no uncontaminated soil cover, is not covered by liquids, is not enclosed in a building, and is not in intact containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7

Documentation for Source Type, Source LANDFILL:

According to the Oneida County Department of Environmental Health, the Universal Waste site was previously the old Utica Landfill. Evidence of old refuse was seen on northern portions of the site during the ARCS II site inspection, where recent clearing had been done.

Reference: 3, p. 3 of 7; 6, p. 1 of 1

Documentation for Secondary Source Type, LANDFILL:

No secondary sources were associated with the former landfill.

Reference: 3, p. 3 of 7

Documentation for Particulate Containment, Source EBASCO UW-SS03:

Based on HRS Table 6-9.
All situations except those specifically listed below = 10.
Source has no engineered windbreak, no maintained cover,
no uncontaminated soil cover, is not covered by liquids,
is not enclosed in a building, and is not in intact containers.

Reference: 1, p. 1 of 1; 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Source Type, Source EBASCO UW-SS03:

Based on analytical results from Ebasco 1992, soil sample UW-SS03 was found to contain several inorganics and organic contaminants at concentrations greater than three times background levels.

Reference: 4, pp. 27-32 of 37; 10, pp. 93, 126, 127, 148, & 208 of 212

Documentation for Secondary Source Type, EBASCO UW-SS03:

No secondary sources were observed to be associated with UW-SS03.

Reference: 3, pp. 1-7 of 7; 32, pp. 1-7 of 7

Documentation for Particulate Containment, Source CLAYTON B-5 SUBSURF:

Based on HRS Table 6-9.

Source covered by greater than 3 feet of uncontaminated soil and substantitally vegetated with little or no exposed soil.

Reference: 1, p. 1 of 1; 3, p. 3 of 7; 5, pp. 25 and 26 of 98

Documentation for Source Type, Source CLAYTON B-5 SUBSURF:

Based on unvalidated analytical results from Clayton 1984, subsurface soil at location B-5 was found to be contaminated with two inorganics at concentrations greater than three times background levels within the 10 to 12 ft. interval.

Reference: 5, pp. 25 and 26 of 98

Documentation for Secondary Source Type, CLAYTON B-5 SUBSURF:

No secondary sources were found to be associated with this source.

Reference: 5, pp. 22 and 23 of 98

Documentation for Particulate Containment, Source CLAYTON B-4 SUBSURF:

Based on HRS Table 6-9.

Source covered by greater than 3 ft. of uncontaminated soil and is substantitally vegetated with little or no exposed soil.

Reference: 1, p. 1 of 1; 3, p. 3 of 7; 5, p. 26 of 98

Documentation for Source Type, Source CLAYTON B-4 SUBSURF:

Based on unvalidated analytical results from Clayton 1984, subsurface soil sample B-4 was found to contain PCBs at concentrations greater than three times background levels in the 10 to 12 ft. interval.

Reference: 5, pp. 25 and 26 of 98

Documentation for Secondary Source Type, CLAYTON B-4 SUBSURF:

No secondary sources were found to be associated with this source.

Reference: 5, pp. 22 and 23 of 98

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Documentation for Particulate Migration Potential:

HRS Figure 6-2 used to determine particulate migration potential factor value.

Particulate migration potential factor for Oneida County = 6.

Reference: 1, p. 1 of 1

Source: CLAYTON PCB SOILS

Particulate Hazardous Substance

PCBs

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Source: CLAYTON TCE SOILS

Particulate Hazardous Substance

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Source: EBASCO UW-SS04

Particulate Hazardous Substance

Barium
Cadmium
Chlordane
DDT
Lead

Source: EBASCO UW-SS02

Particulate Hazardous Substance

Barium
Benz(a)anthracene
Cadmium
Chromium
Copper
Indeno(1,2,3-CD)pyrene
Methyl Napthalene, 2-
Nickel
PCBs
Phenanthrene

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NO
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Source: LANDFILL

Particulate Hazardous Substance

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Source: EBASCO UW-SS03

Particulate Hazardous Substance

Cadmium
Chromium
Cobalt
Di-n-butyl phthalate
Iron
Nickel
Vanadium

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Source: CLAYTON B-5 SUBSURF

Particulate Hazardous Substance

Cadmium
Lead

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Source: CLAYTON B-4 SUBSURF

Particulate Hazardous Substance

PCBs

Source: 1 CLAYTON PCB SOILS

Source Hazardous Waste Quantity Value: 12.35

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
PCBs	10000	2.00E-02	8.00E-05	2.00E+02

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Source: 2 CLAYTON TCE SOILS

Source Hazardous Waste Quantity Value: 7.94

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Trichloroethylene	10	1.00E+00	NA	1.00E+01

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Source: 3 EBASCO UW-SS04

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Barium	10000	NA	8.00E-05	8.00E-01
Cadmium	10000	NA	8.00E-05	8.00E-01
Chlordane	10000	2.00E-03	8.00E-05	2.00E+01
DDT	1000	2.00E-03	8.00E-05	2.00E+00
Lead	10000	NA	8.00E-05	8.00E-01

AIR PATHWAY WASTE CHARACTERISTICS

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Source: 4 EBASCO UW-SS02

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Barium	10000	NA	8.00E-05	8.00E-01
Benz(a)anthracene	1000	2.00E-04	8.00E-05	2.00E-01
Benzene	100	1.00E+00	NA	1.00E+02
Cadmium	10000	NA	8.00E-05	8.00E-01
Chromium	10000	NA	8.00E-05	8.00E-01
Copper	100	NA	8.00E-05	8.00E-03
Indeno(1,2,3-CD)pyrene	100	NA	8.00E-05	8.00E-03
Methyl ethyl ketone	10	1.00E+00	NA	1.00E+01
Methyl Napthalene, 2-	100	2.00E-01	8.00E-05	2.00E+01
Nickel	100	NA	8.00E-05	8.00E-03
PCBs	10000	2.00E-02	8.00E-05	2.00E+02
Phenanthrene	100	2.00E-02	8.00E-05	2.00E+00
Toluene	10	1.00E+00	NA	1.00E+01
Xylene, m-	1	1.00E+00	NA	1.00E+00

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Source: 5 LANDFILL

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
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Source: 6 EBASCO UW-SS03

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Cadmium	10000	NA	8.00E-05	8.00E-01
Chromium	10000	NA	8.00E-05	8.00E-01
Cobalt	1	NA	8.00E-05	8.00E-05
Di-n-butyl phthalate	10	2.00E-02	8.00E-05	2.00E-01
Iron	100	NA	8.00E-05	8.00E-03
Nickel	100	NA	8.00E-05	8.00E-03
Vanadium	100	NA	8.00E-05	8.00E-03

Hazardous Substances Found in an Observed Release

Sample Observed Release ID	Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value
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- N/A and/or data not specified

Documentation for Particulate Mobility:

HRS Figure 6-3 used to determine particulate mobility factor value.
Particulate mobility factor value in the vicinity of Utica is
0.00008.

Reference: 1, p. 1 of 1

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Toxicity/Mobility Value from Source Hazardous Substances:	2.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	2.00E+02
Sum of Source Hazardous Waste Quantity Values:	2.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	6

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Actual Contamination

No. Sample ID	Distance (miles)	Level of Contamination
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- N/A and/or data not specified

Potential Contamination
-----Distance Categories Subject
to Potential Contamination

Population

Value

Onsite	40.0	5.3000
> 0 to 1/4 mile	845.0	13.1000
> 1/4 to 1/2 mile	2540.0	8.8000
> 1/2 to 1 mile	10159.0	26.1000
> 1 to 2 miles	35582.0	26.6000
> 2 to 3 miles	9118.0	1.2000
> 3 to 4 miles	16987.0	2.3000

Potential Contaminantion Factor: 83.0000

Documentation for Population Onsite Distance Category:

There are a maximum number of 40 workers at the site.

Reference: 3, p. 2 of 7

Documentation for Population > 0 to 1/4 mile Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 0 to 0.25 mile = 845.

Reference: 13, p. 1 of 23

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Documentation for Population > 1/4 to 1/2 mile Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 0.25 to 0.5 mile = 2,540.

Reference: 13, p. 1 of 23

Documentation for Population > 1/2 to 1 mile Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 0.5 to 1 mile = 10,159.

Reference: 13, p. 1 of 23

Documentation for Population > 1 to 2 miles Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 1 to 2 miles = 35,582

Reference: 13, pp. 1 and 2 of 23

Documentation for Population > 2 to 3 miles Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 2 to 3 miles = 9,118.

Reference: 13, p. 2 of 23

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Documentation for Population > 3 to 4 miles Distance Category:

Based on population calculations by Ebasco Services from 7-15-92.
Population within 3 to 4 miles = 16,987

Reference: 13, p. 3 of 23

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Nearest Individual Factor

Level of Contamination: Potential
Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Documentation for Nearest Individual:

The nearest residence identified during the site reconnaissance is located approximately 2,000 ft. (0.38 mile) from areas of contamination.

Reference: Figure 1; 3, p. 7 of 7

Resources

Resource Use: YES

Resource Value: 5

Documentation for Resources:

The Erie Canal is a major water recreation area, which is located within 0.5 mile of the site.

Reference: Figure 1; 18, p. 1 of 1

AIR PATHWAY TARGETS

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Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value
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- N/A and/or data not specified

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value
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- N/A and/or data not specified

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Sensitive Environments Actual Contamination Factor:	0.000
(Sum of Sensitive Environments + Wetlands Values)	

AIR PATHWAY TARGETS

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Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
BLACK TERN	1.500	50	0.0051	0.026
MOHAWK RIVER	0.189	5	0.2500	0.125
ERIE CANAL	0.350	5	0.0540	0.027
UTICA MARSH	1.500	25	0.0051	0.013
Sum of Sensitive Environments Weighted Values/10:				0.190

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10
> 3 to 4 miles	3465.0	500.0	0.0014	0.070
> 2 to 3 miles	6170.0	500.0	0.0023	0.115
> 1 to 2 miles	6730.0	500.0	0.0051	0.255
> 1/2 to 1 mile	588.6	500.0	0.0160	0.800
> 1/4 to 1/2 mile	87.2	75.0	0.0540	0.405
> 0 to 1/4 mile	37.6	25.0	0.2500	0.625
Total Wetland Acreage: 17078.4				

Sum of Wetland Weighted Acreage Values/10: 2.270

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Sensitive Environment Potential Contamination Factor: 2.000

Documentation for Sensitive Environment TOT. WETLAND ACRE:

Based on planimetric study of 4-mile radius map of the site.
Total wetland acreage within 0 to 0.25 mile from the site = 37.65.

Reference: 33, p. 1 of 6

AIR PATHWAY TARGETS

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Documentation for Sensitive Environment TOT. WETLAND ACRE:

Based on planimetric study of 4-mile radius map of the site.

Total wetland acreage within 0.25 to 0.5 mile from the site = 87.24.

Reference: 33, p. 1 of 6

Documentation for Sensitive Environment TOT. WETLAND ACRE:

Based on planimetric study of 4-mile radius map of the site.

Total wetland acreage within 0.5 to 1 mile of the site = 588.61.

Reference: 33, p. 1 of 6

Documentation for Sensitive Environment TOT. WETLAND ACRE:

Based on planimetric study of 4-mile radius map of the site.

Total wetland acreage within 1 to 2 miles from the site = 6729.99 acres.

Reference: 33, pp. 1 and 2 of 6

Documentation for Sensitive Environment TOT. WETLAND ACRE:

Based on planimetric study of 4-mile radius map of the site.

Total wetland acreage within 2 to 3 miles of the site = 6170.3.

Reference: 33, pp. 1 and 2 of 6

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Documentation for Sensitive Environment TOT. WETLAND ACRE:

Based on planimetric study of 4-mile radius map of the site.

Total wetland acreage within 3 to 4 miles from the site = 3464.63.

Reference: 33, pp. 1 and 2 of 6

Documentation for Sensitive Environment BLACK TERN:

HRS Table 4-23 used to determine sensitive environment value.

Habitat known to be used by species under review as to its Federal endangered or threatened status = 50.

The black tern may be a candidate for listing as a federal threatened or endangered species, but more data is needed. A habitat for black terns is located 1.5 miles west north west of the site.

Reference: 1, p. 1 of 1; 14, p. 1 of 1; 28, p. 2 of 5

Documentation for Sensitive Environment MOHAWK RIVER:

The Mohawk River is designated as a Class C within the 4-mile radius of the site. At its nearest location from the site, the Mohawk River is located 0.189 mile from the site.

Class C streams are protected for fish life and fish propagation.

HRS Table 4-23 used to determine sensitive environment value.

State designated areas for the protection of aquatic life = 5.

Reference: 1, p. 1 of 1; 24, pp. 2 and 3 of 6; 25, p. 1 of 1

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Documentation for Sensitive Environment ERIE CANAL:

The Erie Canal is designated as a Class C river within the 4-mile radius of the site.

Class C streams are protected for fish life and fish propagation.

HRS Table 4-23 used to determine sensitive environment value.

State designated areas for the protection of aquatic life = 5.

Reference: 1, p. 1 of 1; 24, pp. 2 and 3 of 6; 25, p. 1 of 1

Documentation for Sensitive Environment UTICA MARSH:

The Utica Marsh is a state designated wildlife management area. The marsh is located approximately 1.5 miles from the site.

HRS Table 4-23 used to determine sensitive environment value.

State land designated for wildlife or game management = 25.

Reference: 1, p. 1 of 1; 14, p. 1 of 1; 18, p. 1 of 1

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